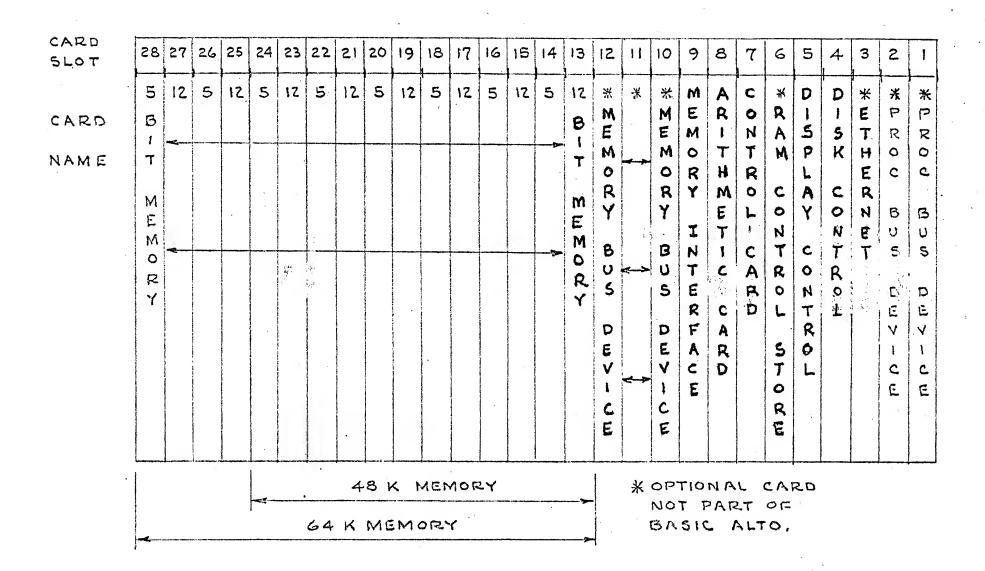
## P.C. ALTO CARD ARRANGEMENT



\* FILE CREATED 1-FEB-77 11:45:39 \* ALTOBPNL MAIN WIRELIST

\$\$	+:			•					0	\$
	+15V:	1*7	2*7	3*7					0	1
	-15V:	1*8	2*8	3*8					0	2
	-5ACT:	7*102							0	3
	-6ACT:	7*101							0	4
	ALUFO:	7*40	8*40						Ó	5
	ALUF1:	7*41	8*41				•		0	6
	ALUF2:	7*42	8*42						0	7
	ALUF3:	7*43	8*43						0	8
	ALU[00]:	6*100	8*100	9*100					0	9
	ALU[01]:	6*101	8*101	9*101					0	10
	ALU[02]:	6*102	8*102	9*102					0	11
	ALU[03]:	6*103	8*103	9*103					0	12
	ALU[04]:	6*104	8*104	9*104					0	13
	ALU[05]:	6*105	8*105	9*105					0	14
	ALU[06]:	6*106	8*106	9*106					0	15
	ALU[07]:	6*107	8*107	9*107					0	16
	ALU[08]:	6*108	8*108	9*108					0	17
	ALU[09]:	6*109	8*109	9*109					0	18
	ALU[10]:	6*110	8*110	9*110					0	19
	ALU[11]:	6*111	8*111	9*111					0	20
	ALU[12]:	6*112	8*112	9*112					0	21
	ALU[13]:	6*113	8*113	9*113					0	22
	ALU[14]:	6*114	8*114	9*114					0	23
	ALU[15]:	6*115	8*115	9*115					0	24
	AUSYSCLK:	3*72	5*72	8*72					0	25
	-AUSYSCLK:	3*12	4*75 .	5*8	7*70	8*8			0	26
	-BLOCK:	4*110	5*110	7*110					0	27
	BSO:	7*120	9*120						0	28
	BS1:	7*121	9*121						0	29
	BS2:	7*122	9*122	-					0	30
	BSZO:	7*44	8*44						0	31
	BUS[00]:	1*80	2*80 8*80	3*80 <sup>.</sup>	4*80	5*80	6*80	7*80	0	32
	BUS[01]:	1*81	2*81 8*81	3*81 9*81	4*81	5*81	6*81	7*81	Ó	33
	BUS[02]:	1*82	2*82 8*82	3*82· 9*82	4*82	5*82	6*82	7*82	0	34

;	<overton>AL</overton>	TOBPNL.W	IRELIST;4	TUE 1	FEB-77	11:45AM			***	PAGE 1:1
	BUS[03]:	1*83	2*83 8*83	3*83 9*83	4*83	5*83	6*83	7*83	0	35
	BUS[04]:	1*84	2*84 8*84	3*84 9*84	4*84	5*84	6*84	7*84	0	36
	BUS[05]:	1*85	2*85 8*85	3*85 9*85	4*85	5*85	6*85	7*85	0	37
	BUS[06]:	1*86	2*86 8*86	3*86 9*86	4*86	5*86	6*86	7*86	0	38
	BUS[07]:	1*87	2*87 8*87	3*87 9*87	4*87	5*87	6*87	7*87	0	39
	BUS[08]:	1*88	2*88 8*88	3*88 9*88	4*88	5*88	6*88	7*88	0	40
	BUS[09]:	1*89	2*89 8*89	3*89 9*89	4*89	5*89	6*89	<b>7*</b> 89	0	41
	BUS[10]:	1*90	2*90 8*90	3*90 9*90	4*90	5*90	6 <b>*90</b>	7*90	0	42
	BUS[11]:	1*91	2*91 8*91	3*91 9*91	4*91	5*91	6*91	7*91	0	43
	BUS[12]:	1*92	2*92 8*92	3*92 9*92	4*92	5*92	6*92	7*92	0	44
	BUS[13]:	1*93	2*93 8*93	3*93 9*93	4*93	5*93	6*93	7*93	0	45
	BUS[14]:	1*94	2*94 8*94	3*94 9*94	4*94	5*94	6*94	7*94	0	46
	BUS[15]:	1*95	2*95 8*95	3*95 9*95	4*95	5*95	6*95	7*95	0	47
	CARRY:	8*73							0	48
	-CE:	9*14	13*75 19*75 25*75	14*75 20*75 26*75	15*75 21*75 27*75	16*75 22*75 28*75	17*75 23*75	18*75 24*75	0	49

					•						
E	BUS[05]:	1*85	2*85 8*85	3*85 9*85	4*85	5*85	6*85	7*85	0	37	•
E	BUS[06]:	1*86	2*86 8*86	3*86 9*86	4*86	5*86	6*86	7*86	0	38	
ī	BUS[07]:	1*87	2*87 8*87	3*87 9*87	4*87	5*87	6*87	7*87	0	39	
i	BUS[08]:	1*88	2*88 8*88	3*88 9*88	4*88	5*88	6*88	7*88	0	40	
i	BUS[09]:	1*89	2*89 8*89	3*89 9*89	4*89	5*89	6*89	7*89	0	41	
1	BUS[10]:	1*90	2*90 8*90	3*90 9*90	4*90	5*90	6*90	7*90	0	42	
	BUS[11]:	1*91	2*91 8*91	3*91 9*91	4*91	5*91	6*91	7*91	0	43	
	BUS[12]:	1*92	2*92 8*92	3*92 9*92	4*92	5*92	6*92	7*92	0	44	
	BUS[13]:	1*93	2*93 8*93	3*93 9*93	4*93	5*93	6*93	7*93	0	45	
	BUS[14]:	1*94	2*94 8*94	3*94 9*94	4*94	5*94	6*94	7*94	0	46	
	BUS[15]:	1*95	2*95 8*95	3*95 9*95	4*95	5*95	6*95	7*95	0	47	
	CARRY:	8*73	,						0	48	
	-CE:	9*14	13*75 19*75 25*75	14*75 20*75 26*75	15*75 21*75 27*75	16*75 22*75 28*75	17*75 23*75	18*75 24*75	0	49	
	-CONST←:	6*97	7*97	9*97	ы				0	50	
	-CSO:	9*15	13*76	14*76	15*76	16*76			0	51	
	-CS1:	9*75	17*76	18*76	19*76	20*76			0	52	
	-CS2:	9*76	21*76	22*76	23*76	24*76			0	53	
	-CS3:	9*77	25*76	26*76	27*76	28*76			0	54	
	CSYSCLK:	5*70							0 :	55	
	-CURTAC:	5*114	7*114						0	56	
	DBARC:	1*63	2*63	3*63	5*63	6*6 <b>3</b>	7*63		0	57	
170	DBSYSCLK:	5*62	6*62	7*62			*		0	58	
170 <sub>NS</sub>	DCLK:	5*10							0	59	
,, -,-3,	DDR←:	5*6	7*6						0	6 <b>0</b>	
	-DHTAC:	5*23	7*23						0	61	
	DNS:	7*75	8*75						0	62	
	-DS0:	9*19	13*79 25*79	14*79 26*79	17*79	18*79	21*79	22*79	0	63	
	-DS1:	9*18	15*79 27*79	16*79 28*79	19*79	20*79	23*79	24*79	0	64	
	-DVTAC:	5*22	7*22					•	0	65	
	-										

	7*46	8*46						0	103
-LSH1:									
-LOADT:	7*69	8*69	Θ.					0	102
LOADR:	7*68	8*68						0	101
LOADL:	7*7	8*7			•			0	100
-LCY8:	7*48	8*48						0	99
LALUCO:	7*49	8*49						0	98
-KWDTAC:	4*25	7*25						0	97
KSYSCLK:	4*7	5*7						0	96
-KSTAC:	4*28	7*28						0	95
IR←:	7*71	8*71						0	94
-IR[15]:	8*25							0	93
-IR[14]:	8*24							0	92
-IR[12]:-	8*22	8*23						0	91
-IR[11]:	8*21							0	90
-IR[10]:	8*20							0	89
-IR[ <b>0</b> 9]:	7*19	8*19						0	88
-IR[08]:	7*18	8*18						0	87
-IR[07]:	7*78	8*78	* .					0	86
-IR[06]:	7*16	8*16						0	85
-IR[05]:	7*15	8*15						0	84
-IR[04]:	7*14	8*14						0	83
-IR[03]:	7*13	8*13						0	82
-IR[01]:	7*11	7*12	8*11	8*12				0	81
-IR[00]:	7*10	8*10						0	80
IBUSY:	3*113							0	79
F2[3]:	1*39	2*39	3*39	4*39	7*39			0	78
F2[2]:	1*38	2*38	3*38	4*38	7*38	8*38		0	77
F2[1]:	1*37	2*37	3*37	4*37	7*37	8*37		0	76
F2[0]:	1*36	2*36	3*36	4*36	7*36	8*36		0	75
-F2EQ11:	5*116	7*116	8*116					0	74
-F2EQ10:	5*51	7*51						0	73
F1[3]:	1*33	2*33	3*33	4*33	7*33			0	72
F1[2]:	1*32	2*32	3*32	4*32	7*32			0	71
F1[1]:	1*31	2*31	3*31	4*31	7*31			0	70
F1[0]:	1*30	2*30	3*30	4*30	7*30		•	0	69
-ETAC:	3*100	7*100		•				0	68
EMACT:	3*99	6*99	7*99	8*99			*	0	67
-DWTAC:	5*24	7*24						0	66

	MAR[06]:	9*39	13*100 19*100 25*100	14*100 20*100 26*100	15*100 21*100 27*100	16*100 22*100 28*100	17*100 23*100	18*100 24*100	0	105
	MAR[07]:	9*41	10*41 16*102. 22*102 28*102	11*41 17*102 23*102	12*41 18*102 24*102	13*102 19*102 25*102	14*102 20*102 26*102	15*102 21*102 27*102	0	106
	MAR[08]:	9*42	10*42 16*103 22*103 28*103	11*42 17*103 23*103	12*42 18*103 24*103	13*103 19*103 25*103	14*103 20*103 26*103	15*103 21*103 27*103	0	107
	MAR[09]:	9*50	10*50 16*111 22*111 28*111	11*50 17*111 23*111	12*50 18*111 24*111	13*111 19*111 25*111	14*111 20*111 26*111	15*111 21*111 27*111	0	108
	MAR[10]:	9*52	10*52 16*113 22*113	11*52 17*113 23*113	12*52 18*113 24*113	13*113 19*113 25*113	14*113 20*113 26*113	15*113 21*113 27*113	•	
	MAR[11]:	9*44	28*113 10*44 16*105 22*105	11*44 17*105 23*105	12*44 18*105 24*105	13*105 19*105 25*105	14*105 20*105 26*105	15*105 21*105 27*105	0	109
	MAR[12]:	9*51	28*105 10*51 16*112 22*112	11*51 17*112 23*112	12*51 18*112 24*112	13*112 19*112 25*112	14*112 20*112 26*112	15*112 21*112 27*112	0	110
/	MAR[13]:	9*46	28*112 10*46 16*106 22*106	11*46 17*106 23*106	12*46 18*106 24*106	13*106 19*106 25*106	14*106 20*106 26*106	15*106 21*106 27*106	0	111
	MAR[14]:	9*43	28*106 10*43 16*104 22*104	11*43 17*104 23*104	12*43 18*104 24*104	13*104 19*104 25*104	14*104 20*104 26*104	15*104 21*104 27*104	0	112
			28*104						0	113
	MAR←:	7*72	9*72				/		0	114
	-MD[00]: 7	9*20	10*20 15*85 21*85 27*85	11*20 17*81 23*81	12*20 17*85 23*85	13*81 19*81 25*81	13*85 19*85 25*85	15*81 21*81 27*81	0	115
	-MD[01]:	9*21	10*21 15*84 21*84 27*84	11*21 17*82 23*82	12*21 17*84 23*84	13*82 19*82 25*82	13*84 19*84 25*84	15*82 21*82 27*82		110
	-MD[02]:	9*22	10*22 15*86 21*86	11*22 17*80 23*80	12*22 17*86 23*86	13*80 19*80 25*80	13*86 19*86 25*86	15*80 21*80 27*80	0	116
	-MD[03]:	9*23	27*86 10*23 15*87 21*87	11*23 17*83 23*83	12*23 17*87 23*87	13*83 19*83 25*83	13*87 19*87 25*87	15*83 21*83 27*83	0	117
	-MD[04]:	9*24	27*87 10*24 15*90 21*90	11*24 17*88 23*88	12*24 17*90 23*90	13*88 19*88 25*88	13*90 19*90 25*90	15*88 21*88 27*88	0	118
	-MD[05]:	9*25	27*90 10*25 15*91 21*91	11*25 17*89 23*89	12*25 17*91 23*91	13*89 19*89 25*89	13*91 19*91 25*91	15*89 21*89 27*89	0	119
			27*91			×		· · ·	Ó	120

26\*99

28\*99

0

143

RESET:	1*2	2*2	3*2	4*2	6*2	7*2	9*2	0	144
RSO:	9*16	13*77 19*77 25*77	14*77 20*77 26*77	15*77 21*77 27*77	16*77 22*77 28*77	17*77 23*77	18*77 24*77	0	145
RS1:	9*12	13*73 19*73	14*73 20*73	15*73 21*73	16*73 22*73	17*73 23*73	18*73 24*73		
RS2:	9*10	25*73 13*71	26*73 14*71 20*71	27*73 15*71	28*73 16*71 22*71	17*71	18*71	0	146
		19*71 25*71	26*71	21*71 27*71	28*71	23*71	24*71	0	147
RS3:	9*70	13*70 19*70 25*70	14*70 20*70 26*70	15*70 21*70 27*70	16*70 22*70 28*70	17*70 23*70	18*70 24*70	0	148
RS4:	9*8	13*69 19*69 25*69	14*69 20*69 26*69	15*69 21*69 27*69	16*69 22*69 28*69	17*69 23*69	18*69 24*69	0	149
RS5:	9*11	13*72 19*72 25*72	14*72 20*72 26*72	15*72 21*72 27*72	16*72 22*72 28*72	17*72 23*72	18*72 24*72	0	150
RS6:	9*7	13*68 19*68 25*68	14*68 20*68 26*68	15*68 21*68 27*68	16*68 22*68 28*68	17*68 23*68	18*68 24*68	, O	151
RS7:	9*6	13*67 19*67 25*67	14*67 20*67 26*67	15*67 21*67 27*67	16*67 22*67 28*67	17*67 23*67	18*67 24*67	0	152
RSELO:	7*54	8*54	9*54					0	153
RSEL1:	7*55	8*55	9*55					0	154
RSEL2:	7*56	8*56	9*56					0	155
RSEL3:	7*57	8*57	9*57					0	156
RSEL4:	7*59	8*59	9*59					0	157
-RSH1:	7*47	8*47						0	158
-RSN:	3*42							0	159
SELR37:	7*74	9*74						0	160
SHZERO:	7*26	8*26						0	161
SH[00]:	7*50	8*50						0	162
-\$10:	3*41							0	163
SKIP:	8*74	•						0	164
SN[00]:	3*18							0	165
SN[01]:	3*19							0	166
SN[02]:	3*20							0	167
SN[03]:	3*21							0	168
SN[04]:	3*22 <sup>-</sup>							0	169
SN[05]:	3*23				•			0	170
SN[06]:	3*24							0	171
SN[07]:	3*25							0	172
-SRESET:	1*62	2*62	3*62	4*62	7*1	9*62		0	173
-STOP:	5*1	9*1						0	174
STOPCLK:	5*20	7*20						0	175

-STORE:	7*73	9*73						0	176
-SWAKMRT:	3*68	5*68	9*68				è	0	177
-W0:	9*79	13*78 25*78 .	14*78 26* <b>7</b> 8	17*78	18*78	21*78	22*78	0	178
-W1:	9*78	15*78 2 <b>7*</b> 78	16*78 28*78	19*78	20*78	23*78	24*78	0	179
-WAKE5:	7*60							0	180
-WAKE6:	7*104							0	181
WAKECURT:	5*115	7*115						0	182
-WAKEDHT:	5*77	7*77				•		0 .	183
-WAKEDVT:	5*76	7*76						0	184
-WAKEDWT:	5*21	7*21			.,			0	185
-WAKEET:	3*103	7*103						0	186
-WAKEKST:	4*8	7*8						0	187
-WAKEKWDT:	4*79	7*79	•	•				0	188
-WAKEMRT:	7*67	9*67	•					0	189
-WAKEPART:	7*118	9*118						0	190
WRITEPAR:	9*49	14*110 26*110	16*110 28*110	18*110	20*110	22*110	24*110	0	191
XIOREF:	9*48	10*48	11*48	12*48				0	192
XMAR[15]:	9*47	10*47	11*47	12*47				0	193
XMT2:	9*98	10*98	11*98	12*98			•	0	194
-ZEROBUS:	7*34	8*34		•	•			0	195
+DISP:	7*98	8*98						0	196
-←KDATA:	3*111	4*111	7*111					0	197
-←KSTAT:	4*112	7*112			-			0	198
-←MD:	7*96	9*96						0	199

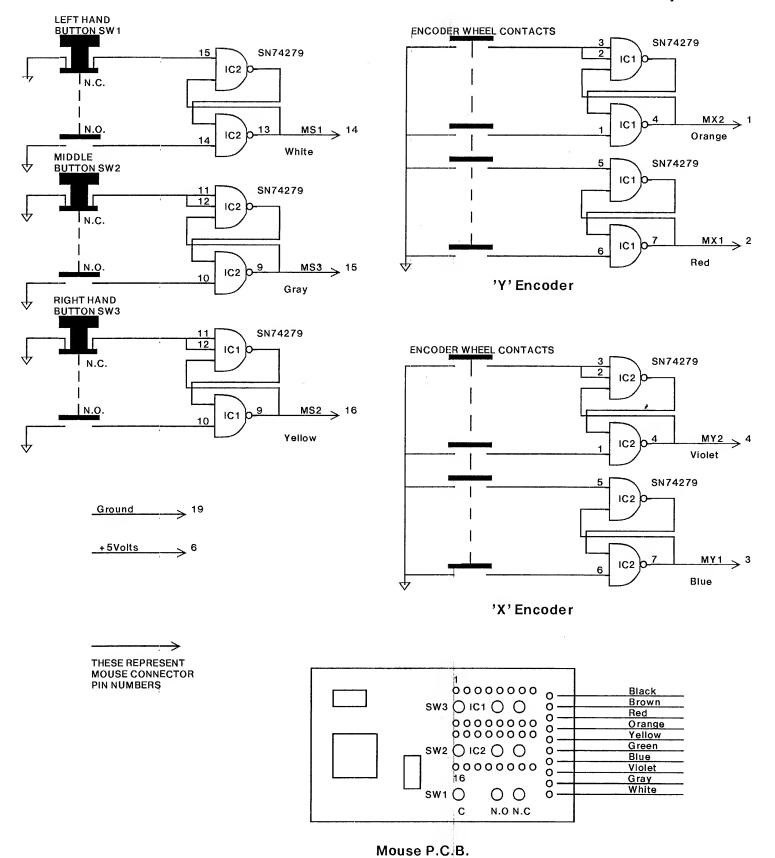
<sup>\*</sup> This card uses 1058 wires tL

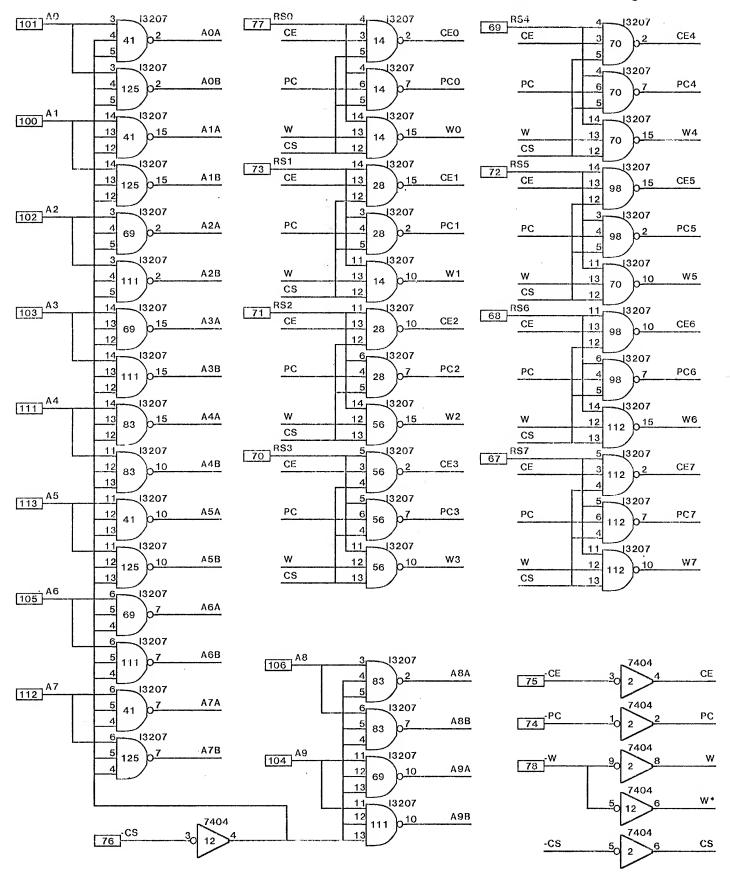
```
OKTORUN
  1*1
                       1*2
                               RESET
                                           1*7
                                                   +15V
                                                                1*8
                                                                        -15V
                               F1[1]
F2[1]
                                           1*32
1*38
                                                   F1[2]
  1*30
          F1[0]
                       1*31
                                                                1*33
                                                                        F1[3]
  1*36
                       1*37
                                                                1*39
          F2[0]
                                                   F2[2]
                                                                        F2[3]
  1*62
          -SRESET
                       1*63
                               ·DBĀRČ
                                           1*80
                                                    BUSTOOT
                                                                1*81
                                                                        BUŠ[Õ1]
          BUS[02]
BUS[06]
  1*82
                       1*83
                               BUS[03]
                                           1*84
                                                   BUS[04]
                                                                1*85
                                                                        BUS[05]
  1*86
                                           1*88
                                                                        BUS[09]
BUS[13]
                       1*87
                               BUS[07]
                                                   ·BUS[08]
                                                                1*89
  1*90
          BUS | 10 โ
                       1*91
                               BUS[้ 11]
                                           1*92
                                                   BUS[12]
                                                                1*93
  1*94
                       1*95
                               BUS[15]
                                           1*105
          BUS[14]
                                                    -NEXT[05] 1*106
                                                                        -NEXT[06]
  1*107
          -NEXT[07] 1*108
                               -NEXT[08] 1*109
                                                   -NEXT[09]
                                                               2*1
                                                                        OKTORŪN
                                           2*8
  2 * 2
                       2*7
                                                               2*30
          RESET
                               +15V
                                                    -15V
                                                                        F1[0]
                                                                2*36
  2*31
          F1[1]
                       2*32
                               F1[2]
                                           2*33
                                                    F1[3]
                                                                        F2[0]
  2*37
                       2*38
                                           2*39
          F2[1]
                                                                2*62
                               F2[2]
                                                   F2[3]
                                                                        -SRESET
  2*63
          DBARC
                      2*80
                               BUS[00]
                                           2*81
                                                   BUS[01]
                                                                2*82
                                                                        BUS[02]
  2*83
          BUS[03]
                      2*84
                               BUST047
                                           2*85
                                                                2*86
                                                   BUST 057
                                                                        BUS[06]
                      2*88
  2*87
          BUS[07]
                               BUS[08]
                                           2*89
                                                                2*90
                                                   BUS[09]
                                                                        BUS[10]
                               BUS[12]
-NEXT[05]
          BUS[11]
BUS[15]
                                                   BUS[13] 2*94
-NEXT[06] 2*107
  2*91
                       2*92
                                           2*93
                                                                        BUS[14]
  2*95
                       2*105
                                          2*106
                                                                        -NEXT[07]
  2*108
          -NEXT[08] 2*109
                                           3*1
                                                               3*2
                               -NEXT[09]
                                                   OKTORŪN
                                                                        RESET
  3 * 7
                      3*8
          +15V
                               -15V
                                           3*12
                                                    -AUSYSCLK 3*18
                                                                        SN[00]
                                           3*21
  3*19
                                                                        SN[04]
F1[0]
          SN[01]
                      3*20
                               SN[02]
                                                    SN[03]
                                                                3*22
  3 * 23
          SN[05]
                      3*24
                               SN[06]
                                           3*25
                                                    SN[O7]
                                                                3*30
                                           3*33
  3 * 3 1
                      3*32
                                                                3*36
          F1[1]
                               F1[2]
                                                    F1[3]
                                                                        F2[0]
  3*37
                                                   F2[3]
          F2[1]
                      3*38
                               F2[2]
                                           3*39
                                                                3*41
                                                                        -510
  3*42
                       3*62
                                           3*63
                                                                3*68
          -RSN
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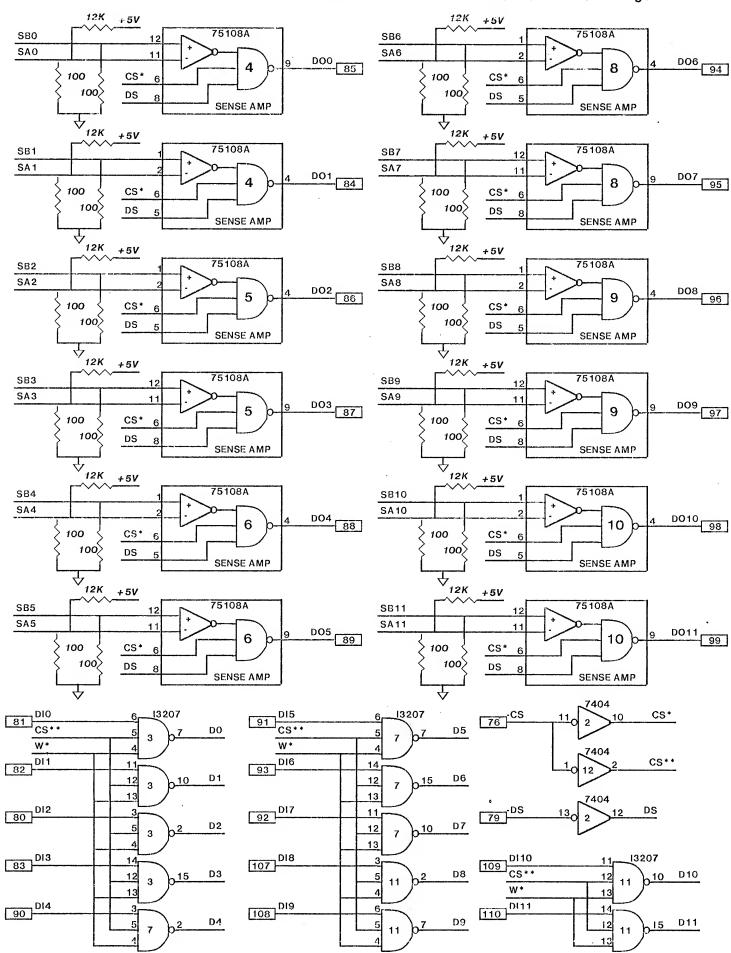
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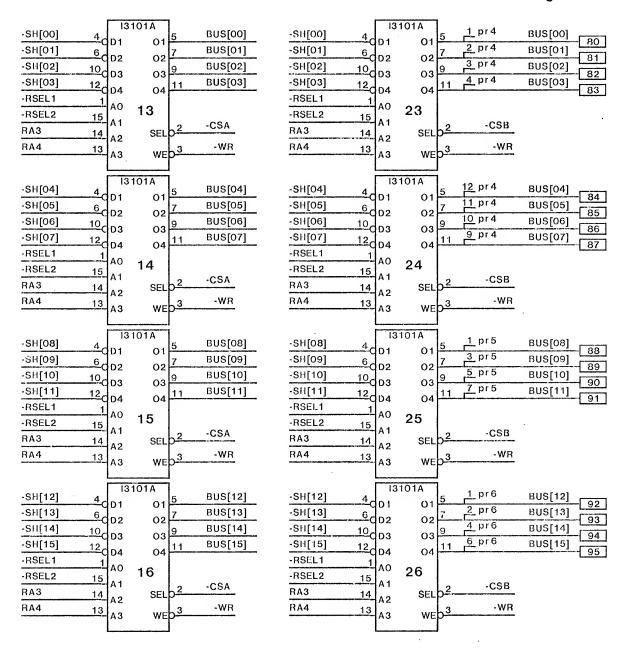
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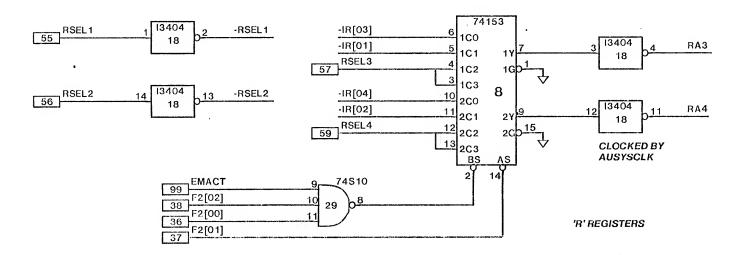
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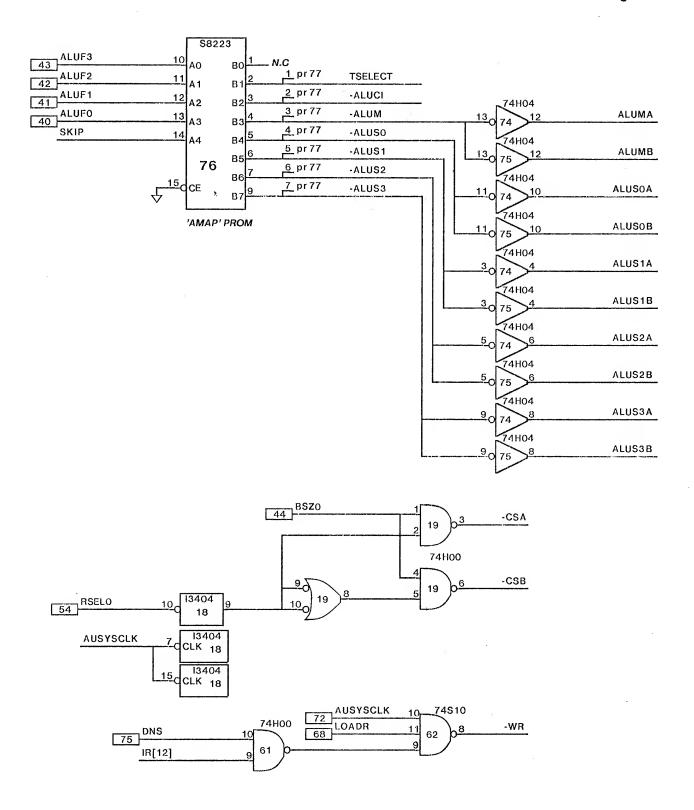
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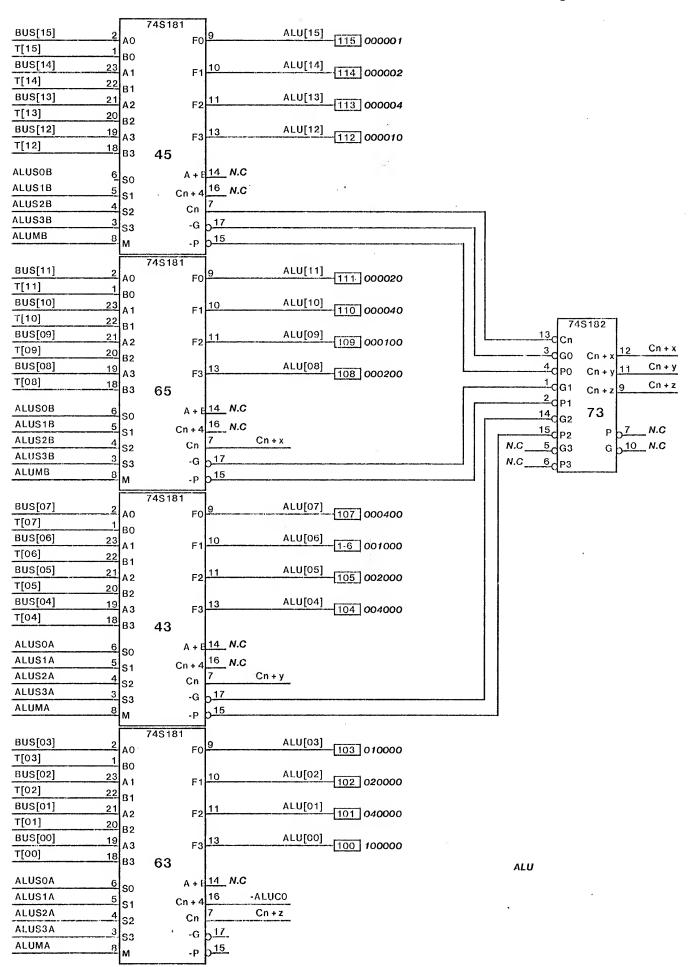
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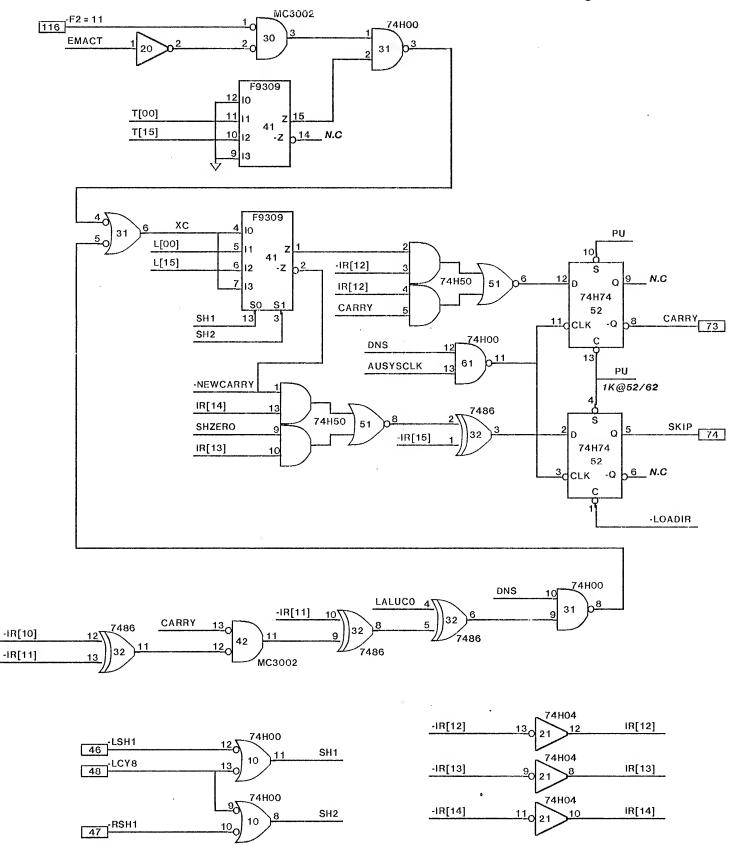




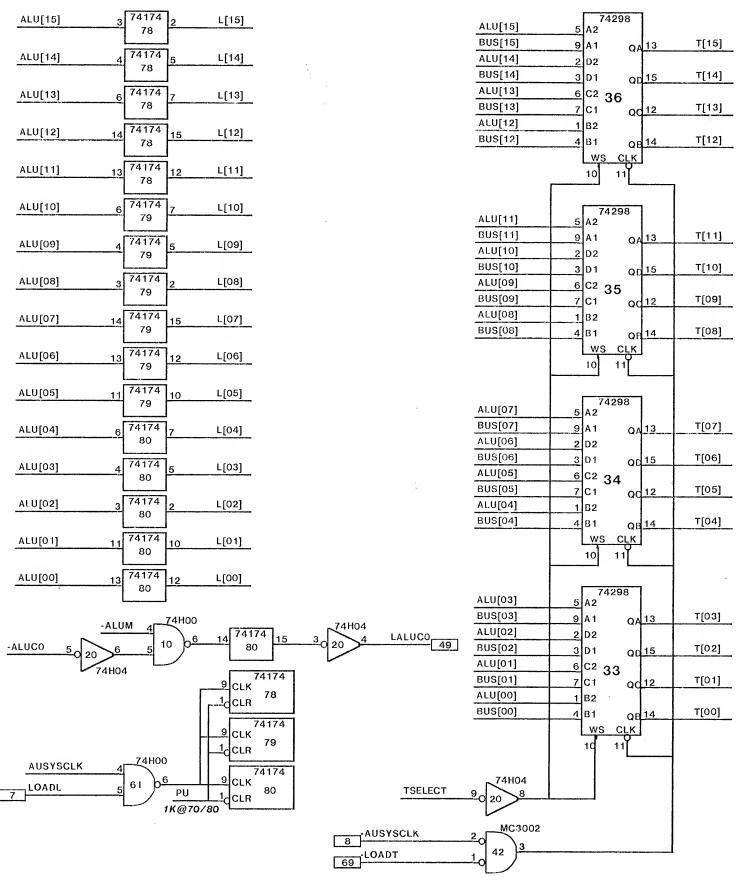


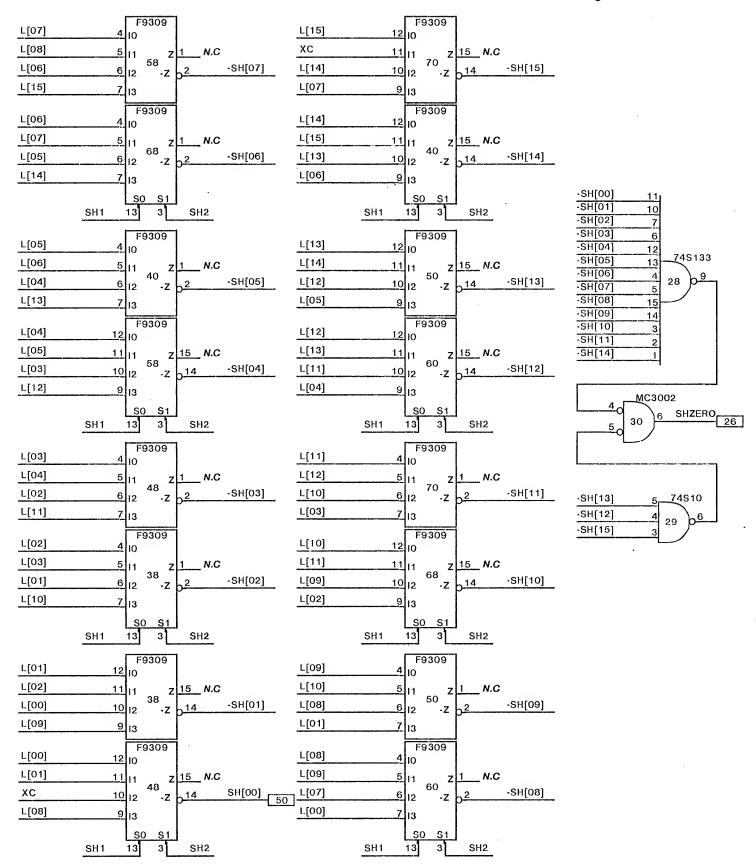
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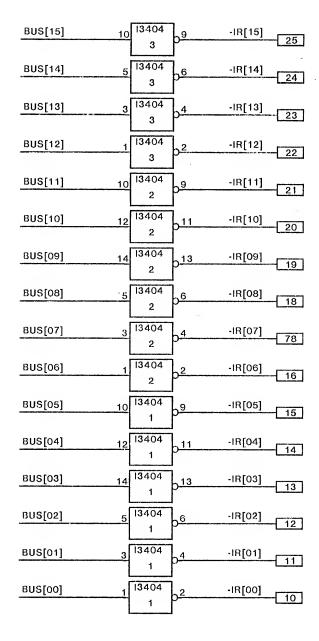


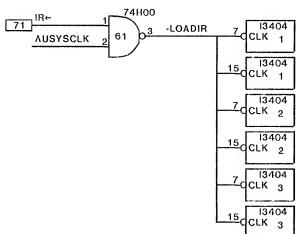
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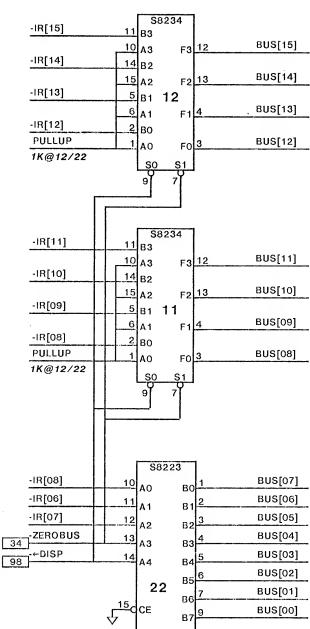




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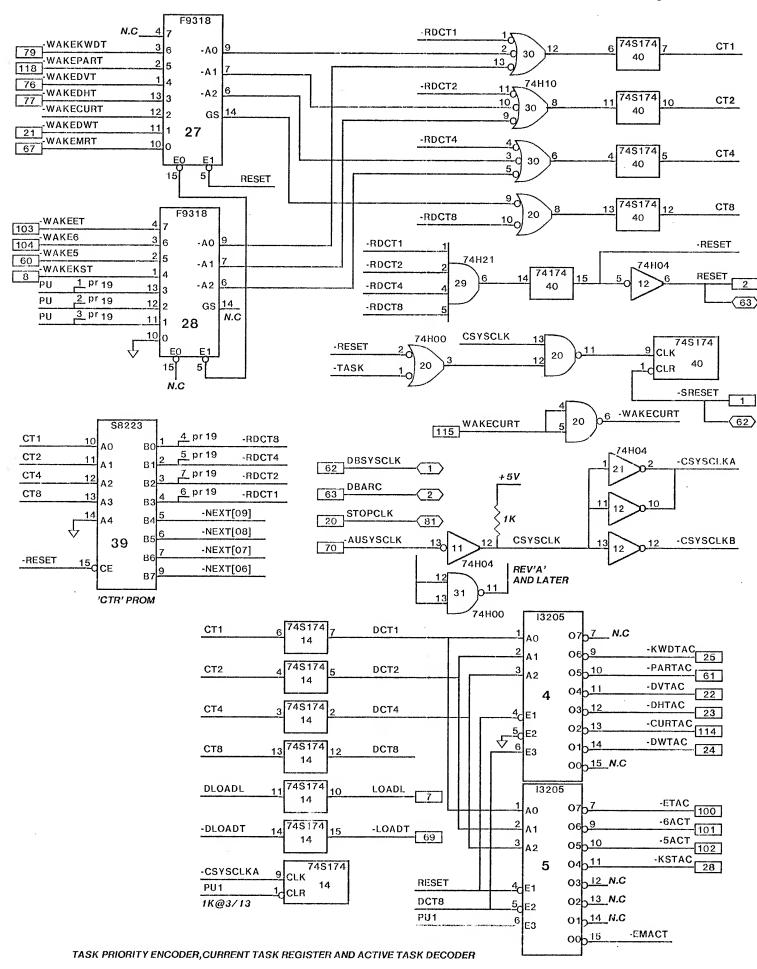


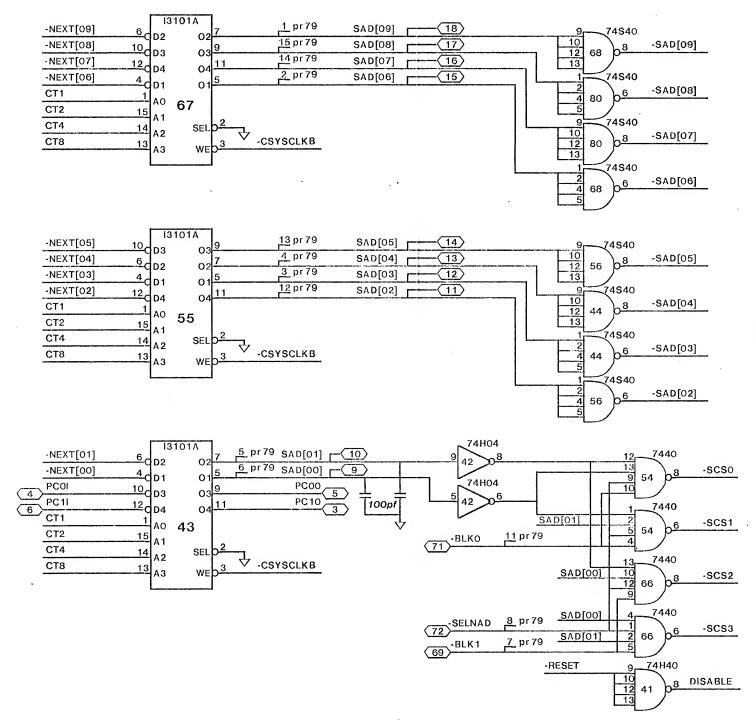




'DISPLAY' PROM

INSTRUCTION REGISTER

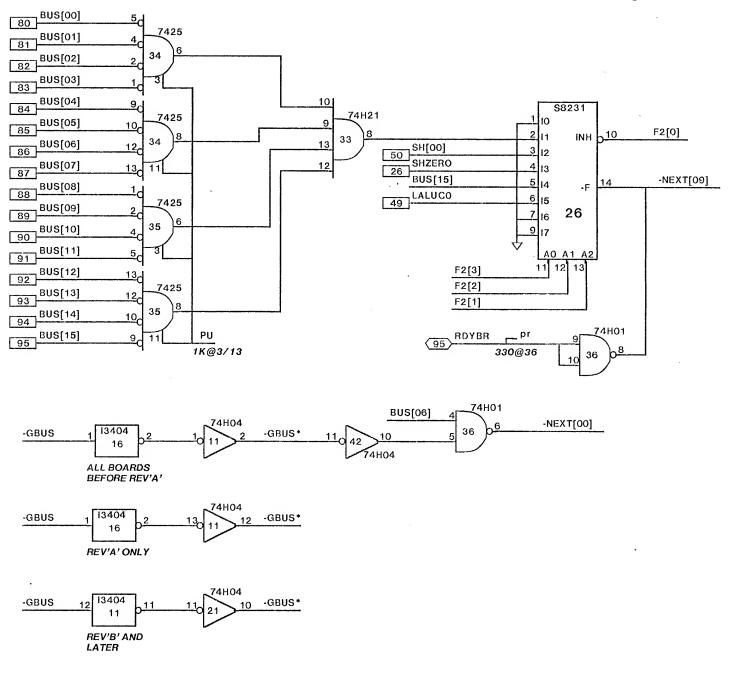


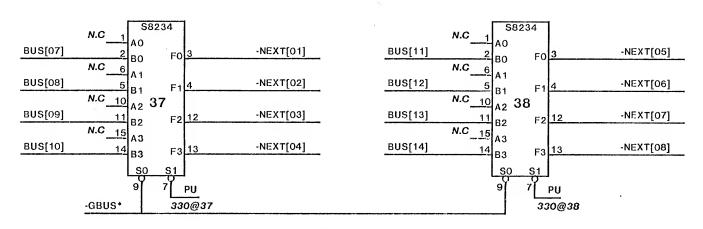


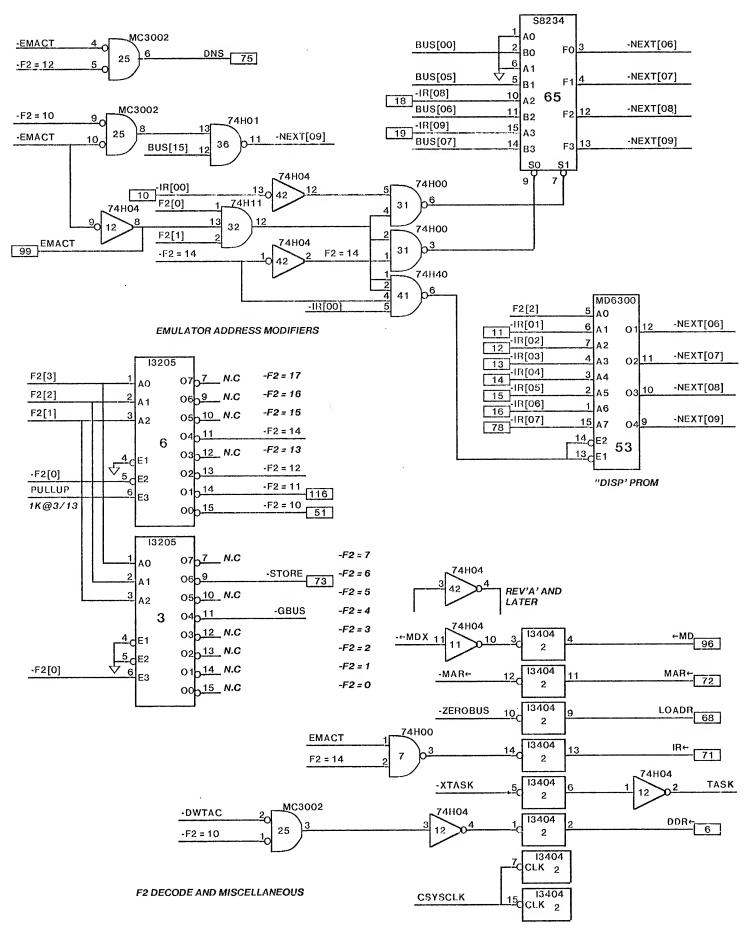
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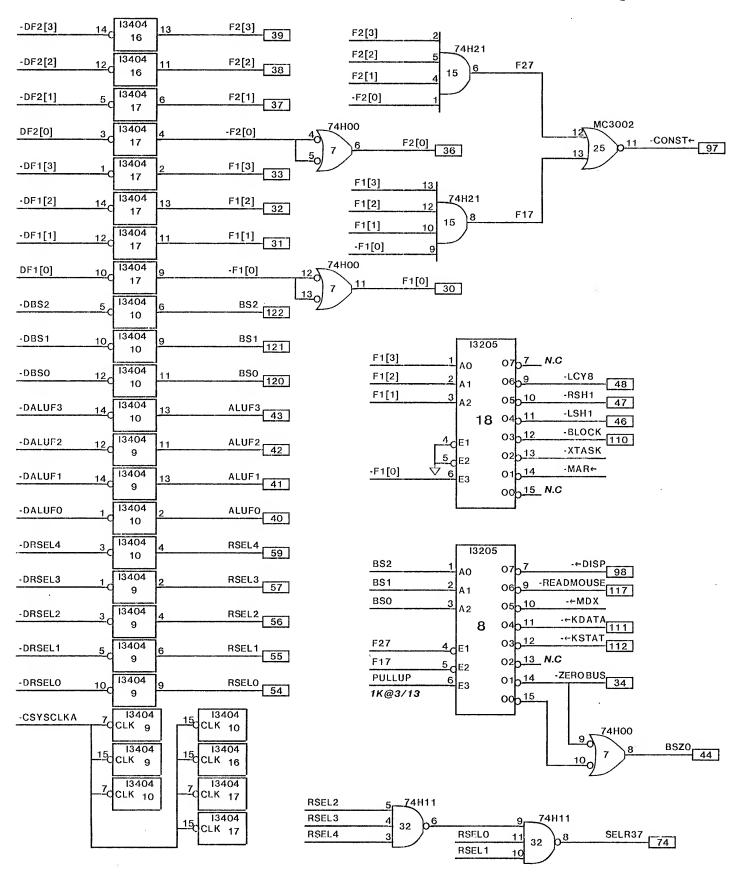
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0.40.00.		6300		MDG	300		MDe	300		MD6	300	l			
-SAD[09]	5_A0		5_	ΑO		5	AO	-	5	AO					
-SAD[08]	6_A1	01	6	A1	01	6	A1	01	6	Α1	01	12	pr	-DRSEL3	<del>-(109</del> )
-SAD[07]		j	7	A2		7	Λ2	Ļ	7	A2					\
-SAD[06]	4_A3	02	4	АЗ	02	4	АЗ	02	4	АЗ	02	11	⊏ pr	-DRSEL2	( <del>108</del> )
-SAD[05]	3 A4		3	A4		3	A4	Ĺ	3	Α4					(100)
-SAD[04]	2_A5		2	A5	03	2	A5	03	2	A5	03	10	pr pr	-DRSEL1	<del>-(107)</del>
-SAD[03]	1_A6		1	A6		1	Α6		1	A6					(101)
-SAD[02]	15 A7		15	A7	04	15	A7	04	15	A7	04	9	pr pr	-DRSELO	405
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-SAD[08]	6_A1	01	6	A1	01	6	A1	01	6_	A1	01	12	pr	-DALUF2	113
-SAD[07]			7	A2		7	A2	-		A2					
-SAD[06]	4 A3	02	4_	АЗ	02	4	АЗ	02	4	А3	02	11	pr	-DALUF1	(112)
·SAD[05]	3 A4		3	Α4	:	3	A4	1	3	Α4					
-SAD[04]	_2_A5	03	2	A5	03	2	A5	03	2	A5	О3	10	pr	-DALUFO	(111)
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-SAD[08] -SAD[07]	5A0 6A1 7A2	01	6 7	A0 A1 A2	01	, 6 7	A0 A1 A2	01	7	A0 A1 A2	01				-(11/)
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-SAD[09]	E	MD630	7	,		6300	5	1	300	5		300				
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-SAD[05]	3	A4					3_	A4		3	A4			nr	DEAL	41
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-SAD[03]	1_	A6	-	······································	A6		1_	A6		1	A6			13.5		
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-SAD[06]	4	A3 C	2		- 1	02	4	A3	02	4	A3	02	11	r pr	-NEXT[C	(40)
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-SCS0	13			-SCS1 1:		45	-SCS2 13	E1	69	-SCS3 13	E1	81				
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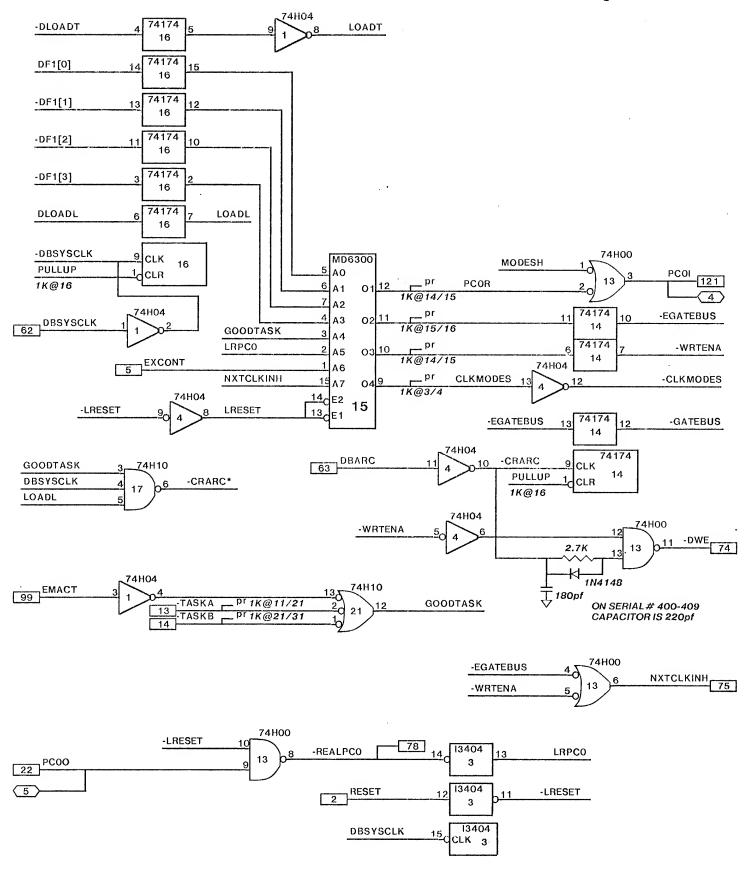




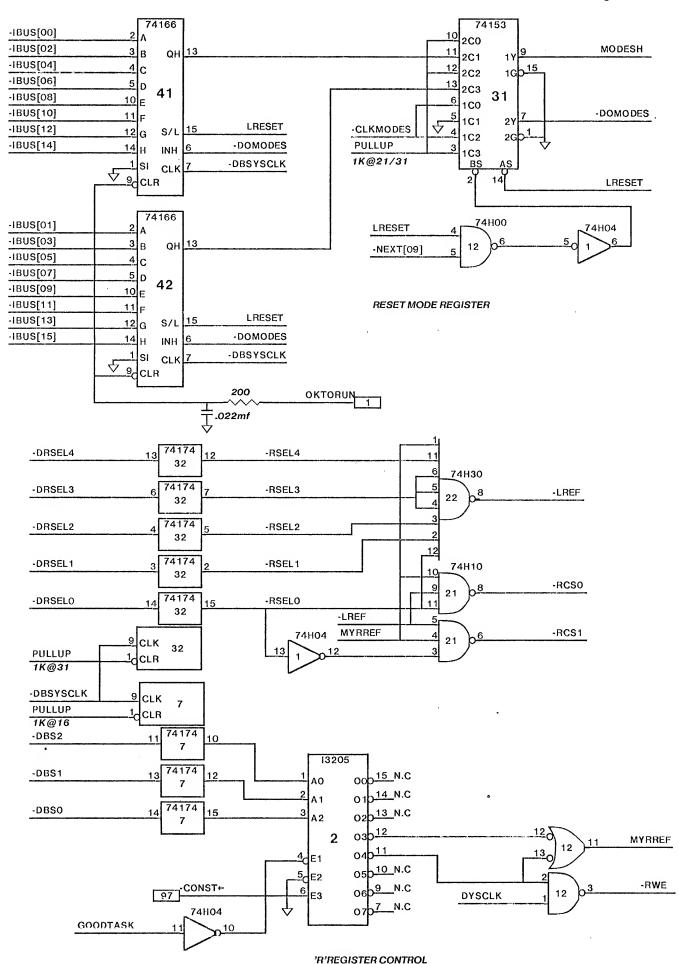


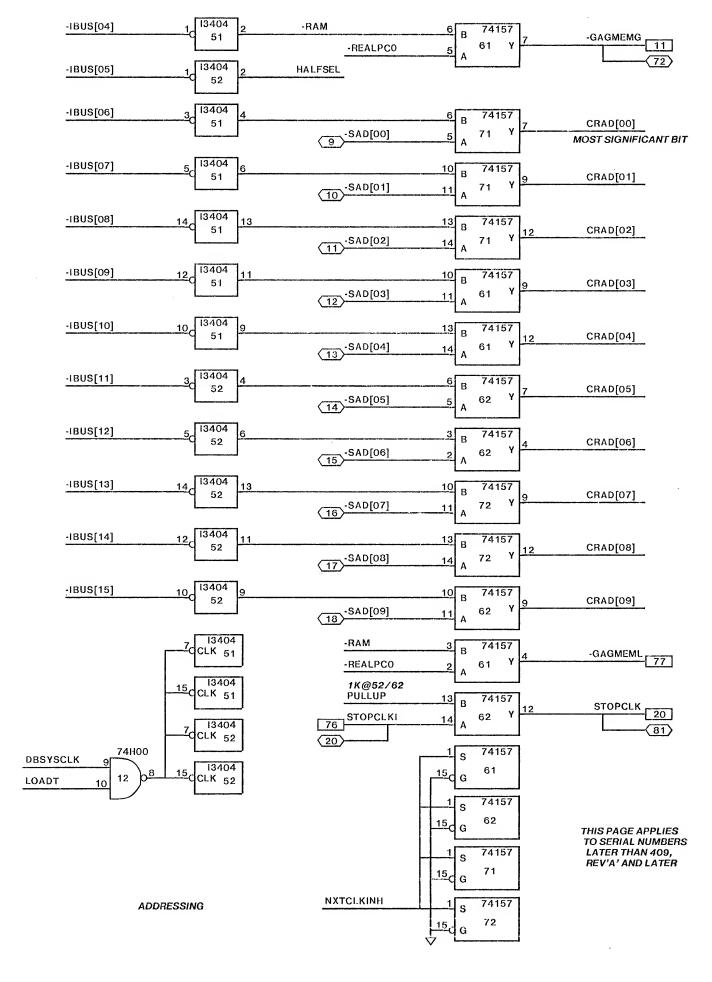


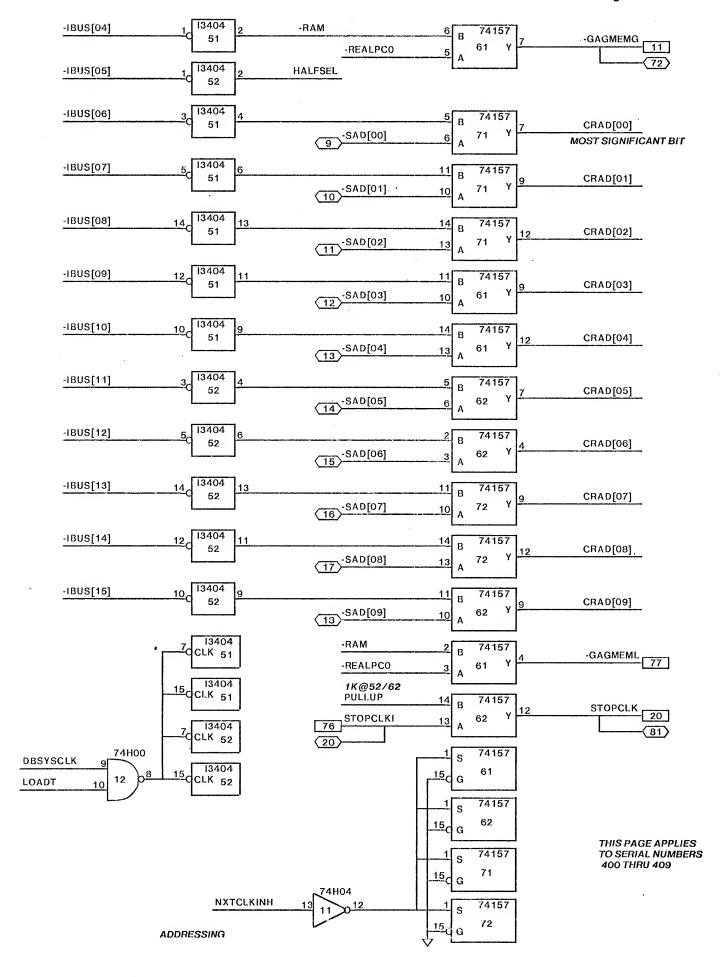
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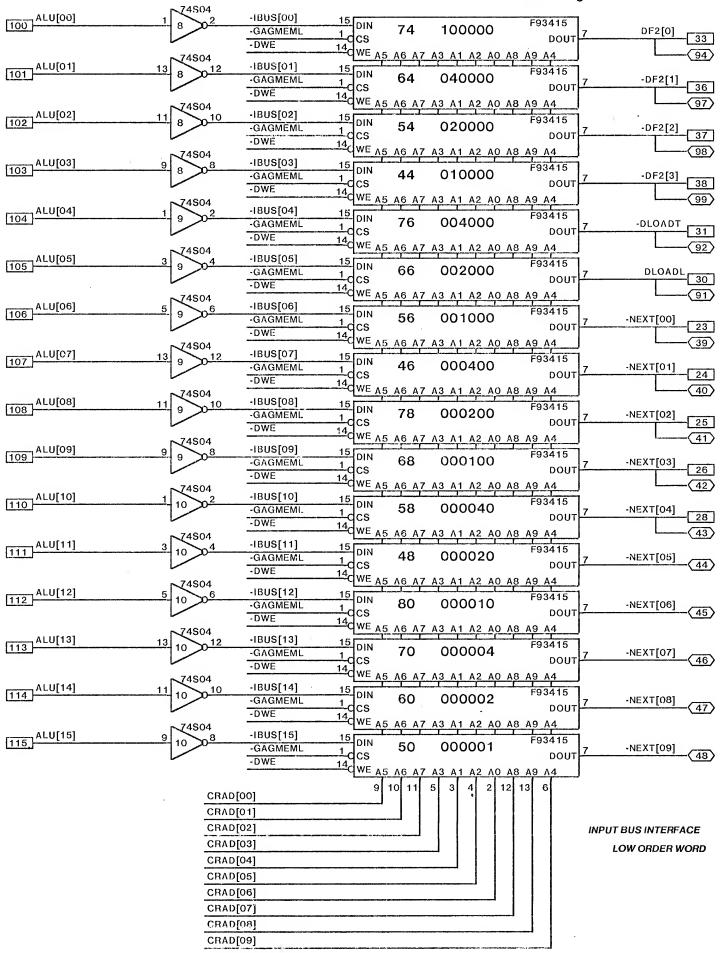
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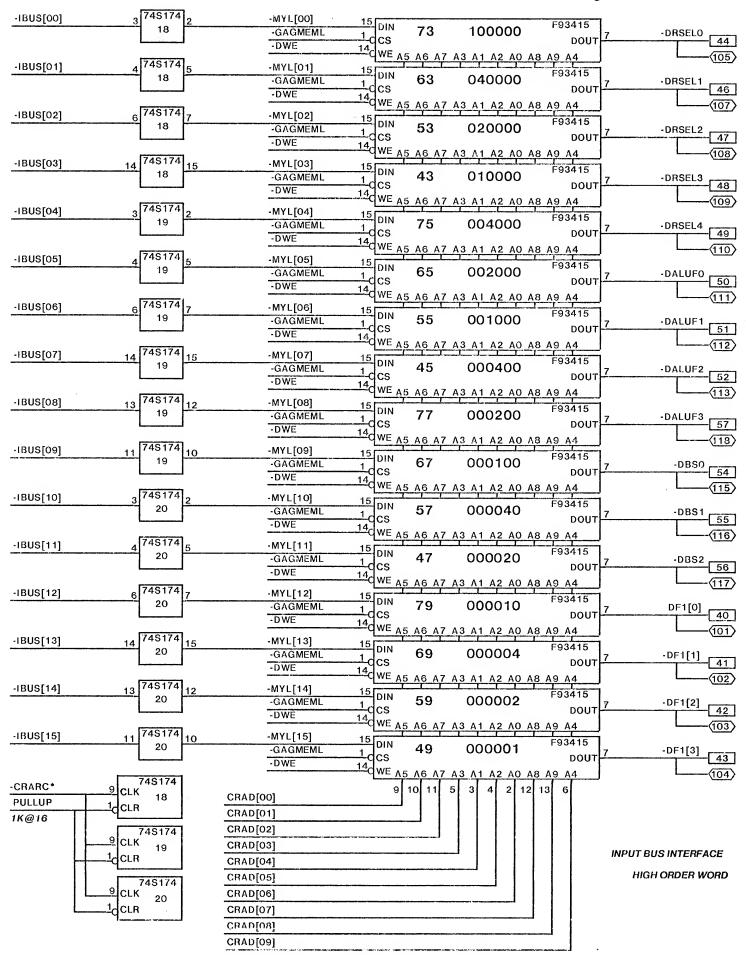


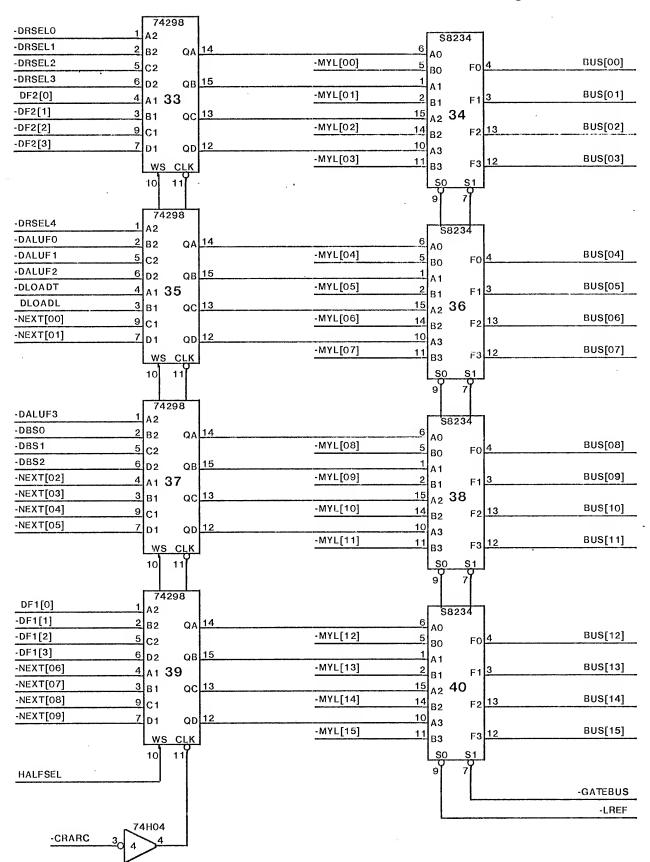




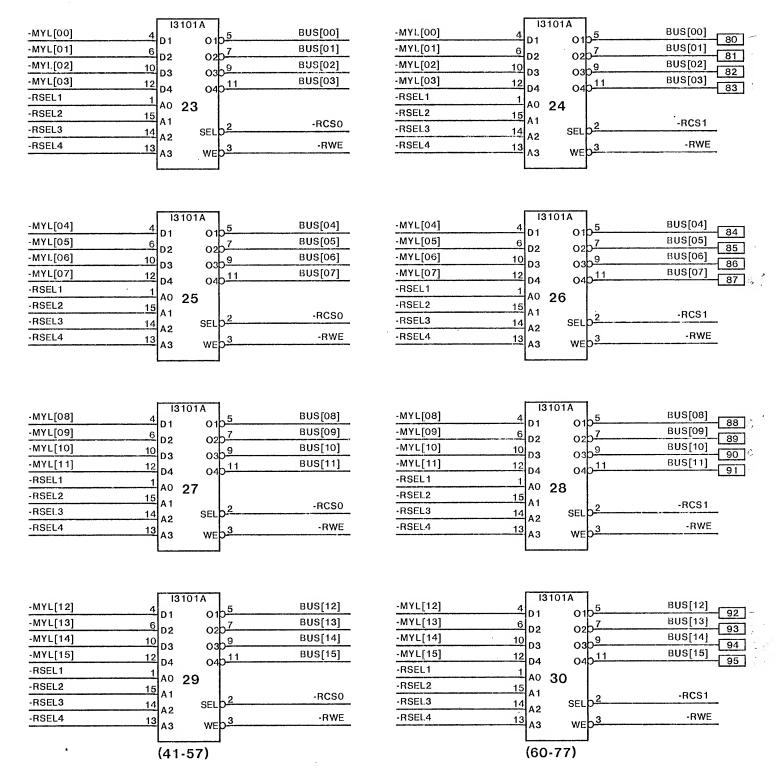
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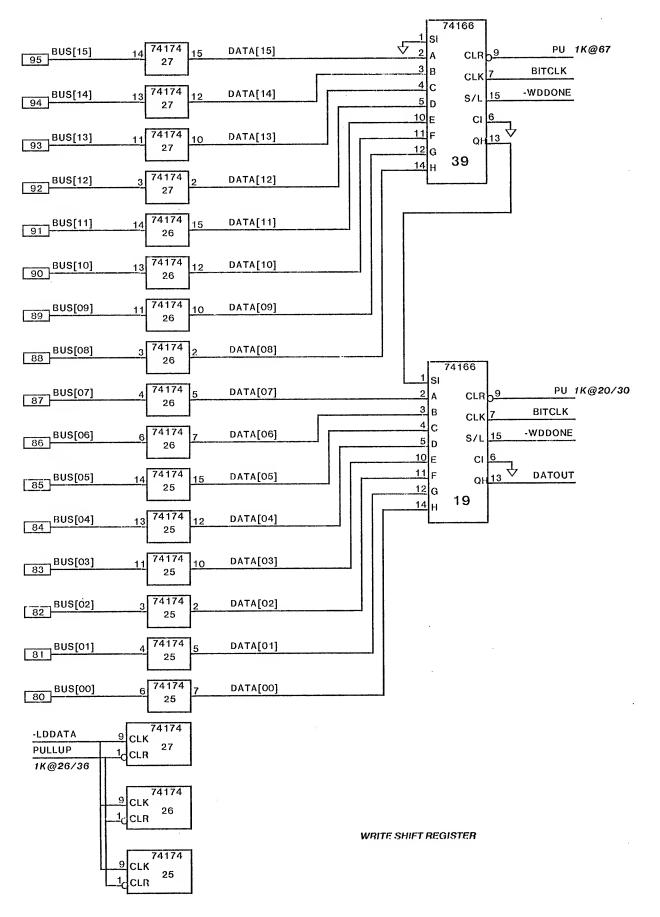


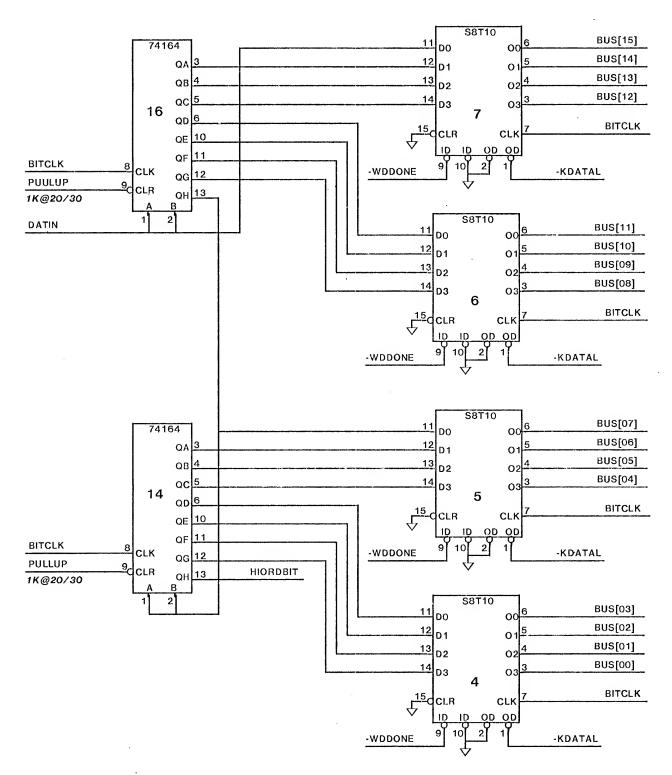


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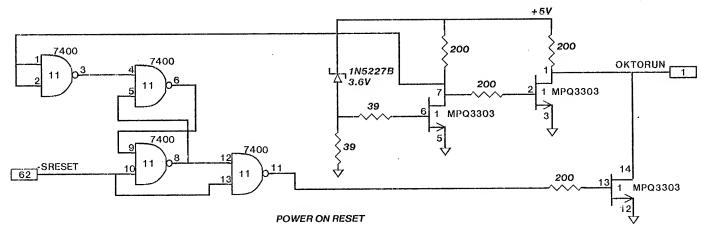


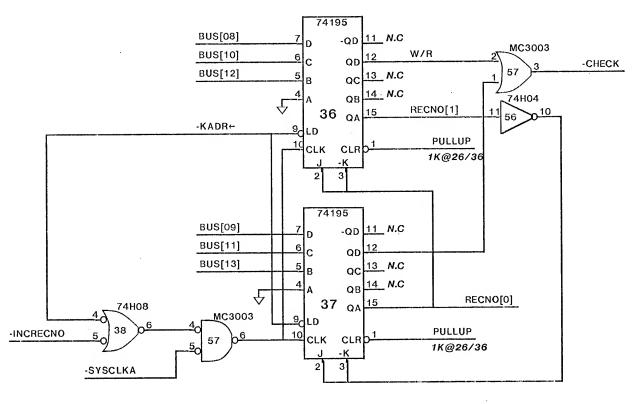
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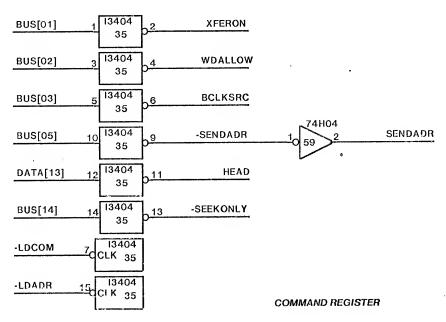


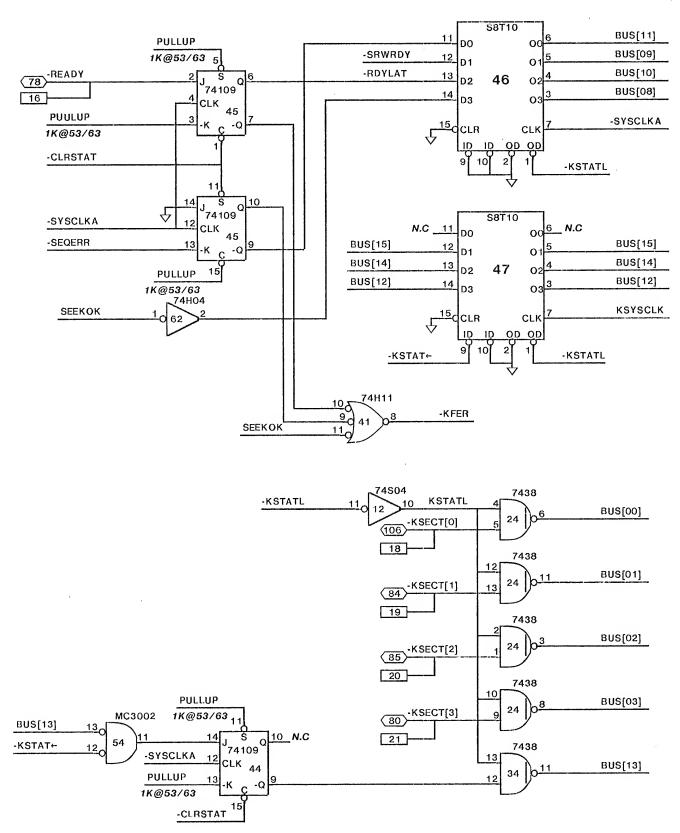


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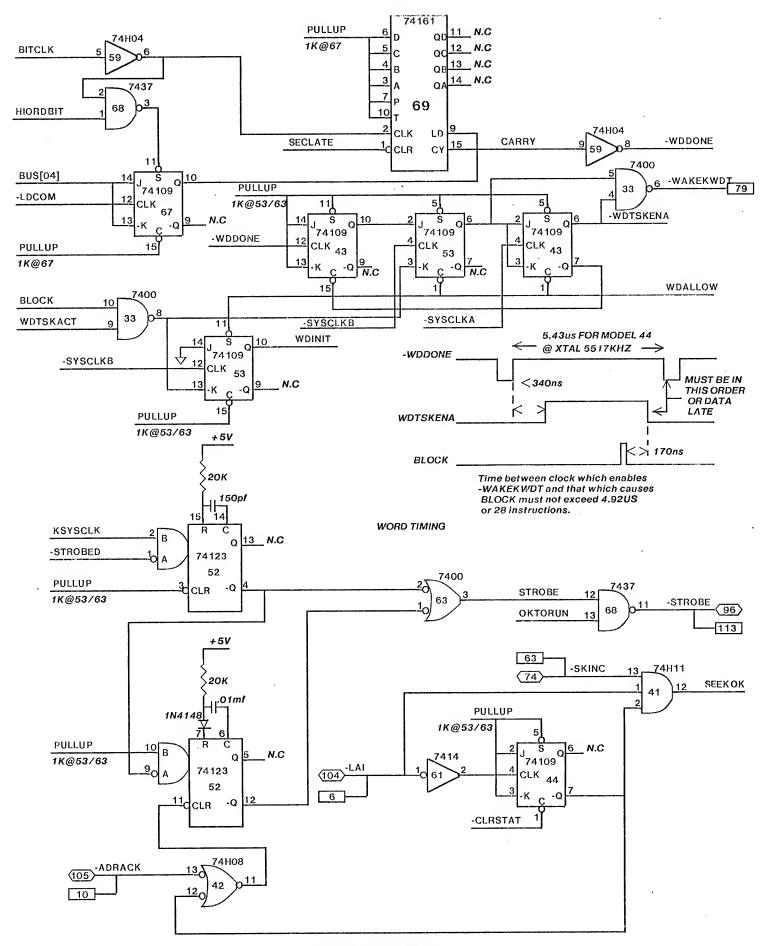


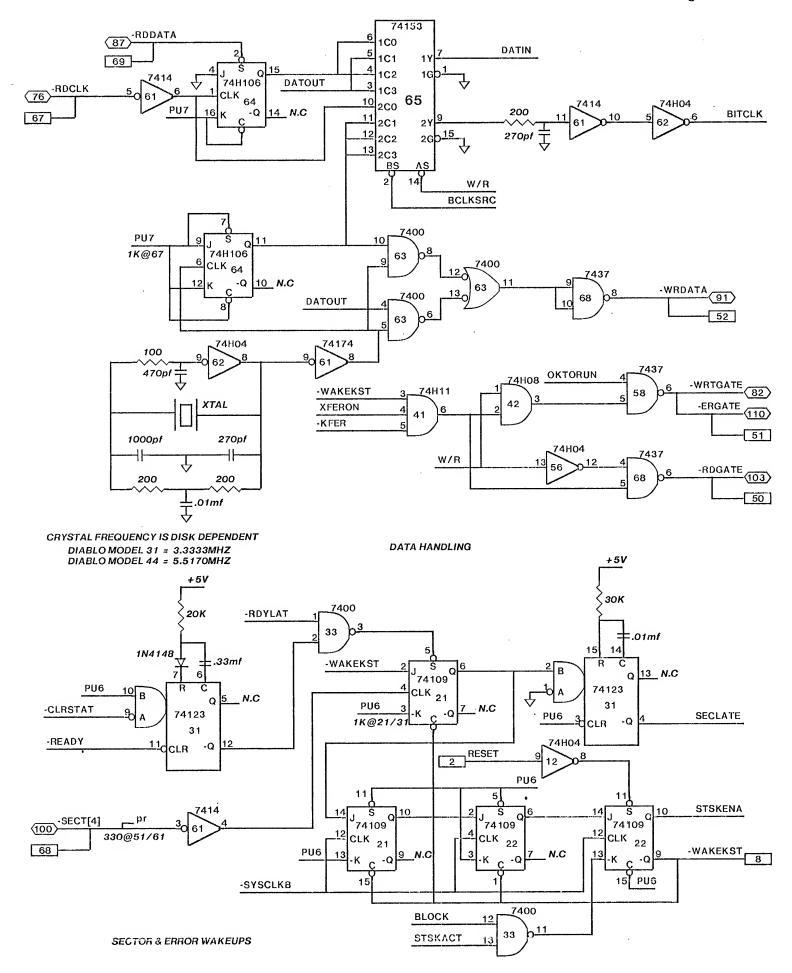


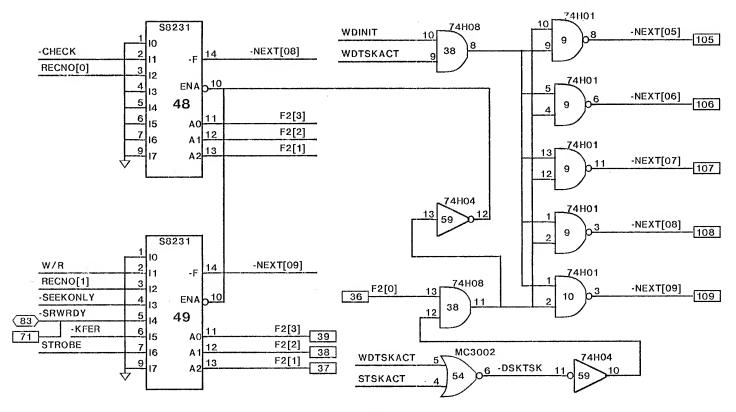




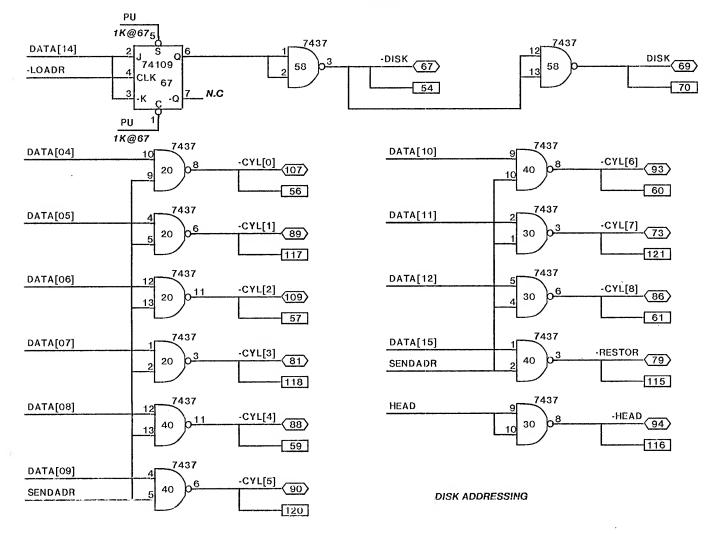
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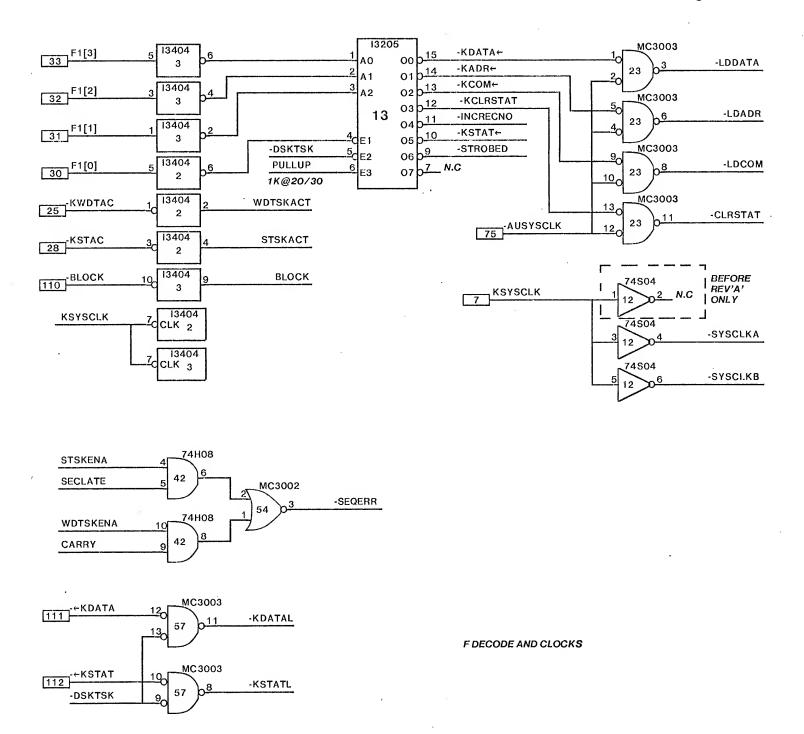


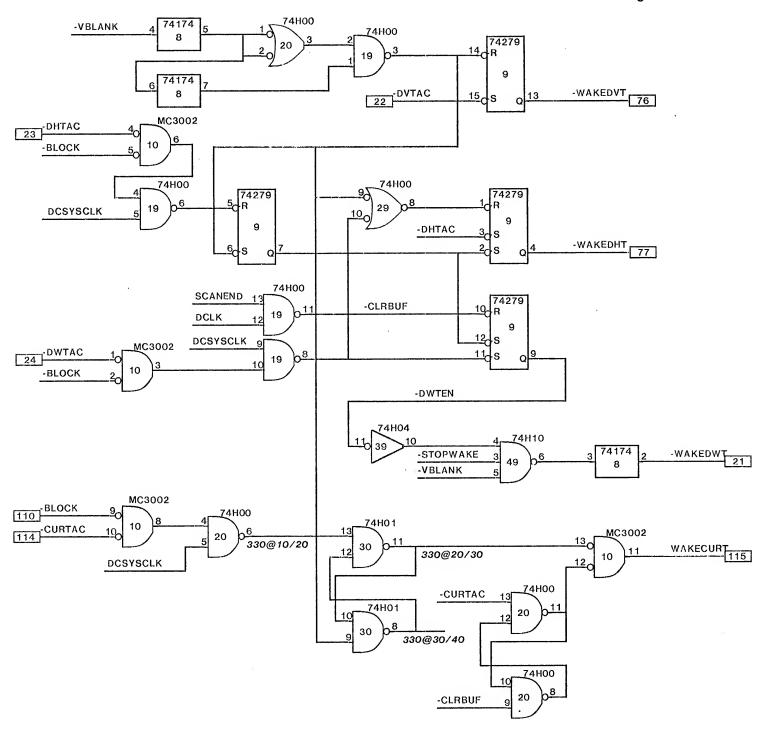




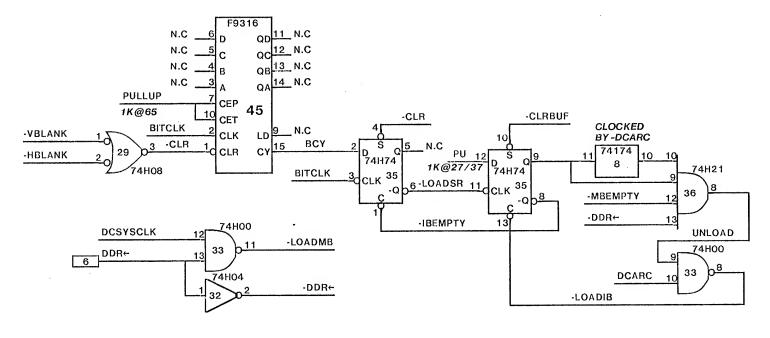
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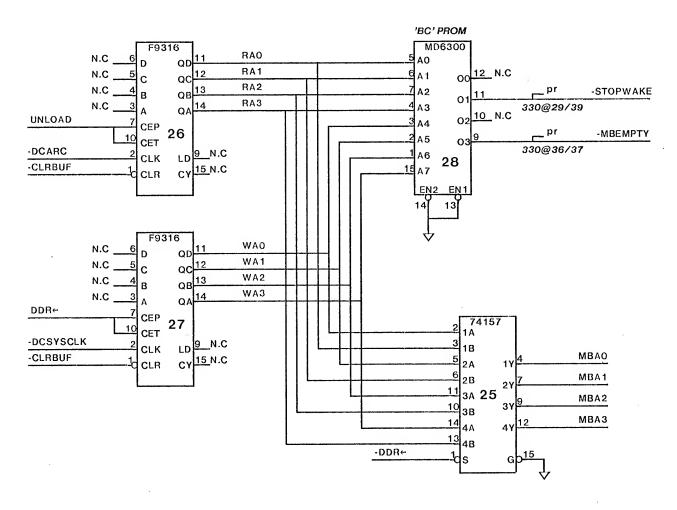




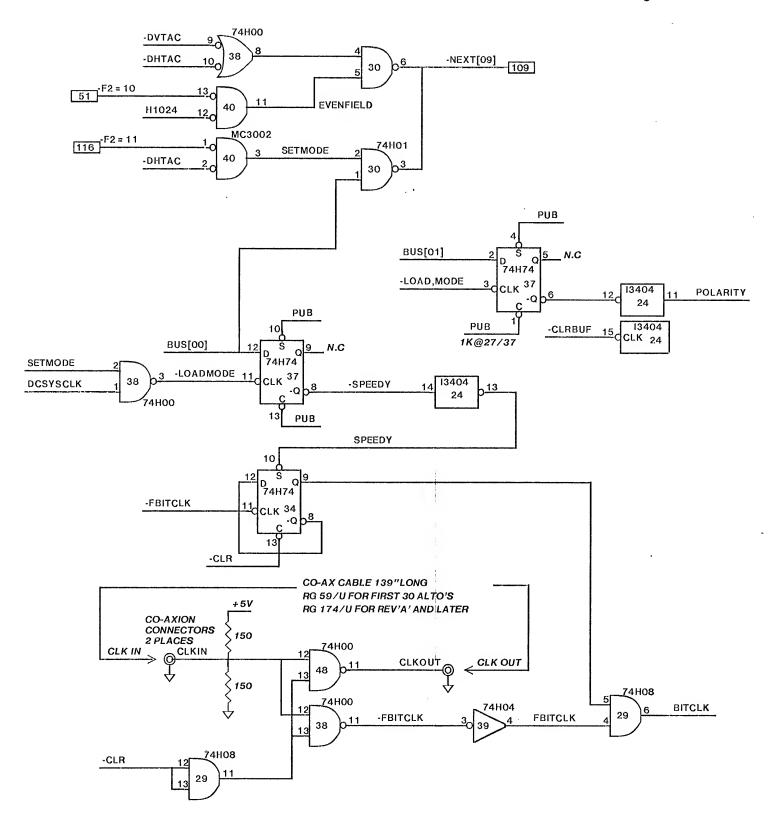


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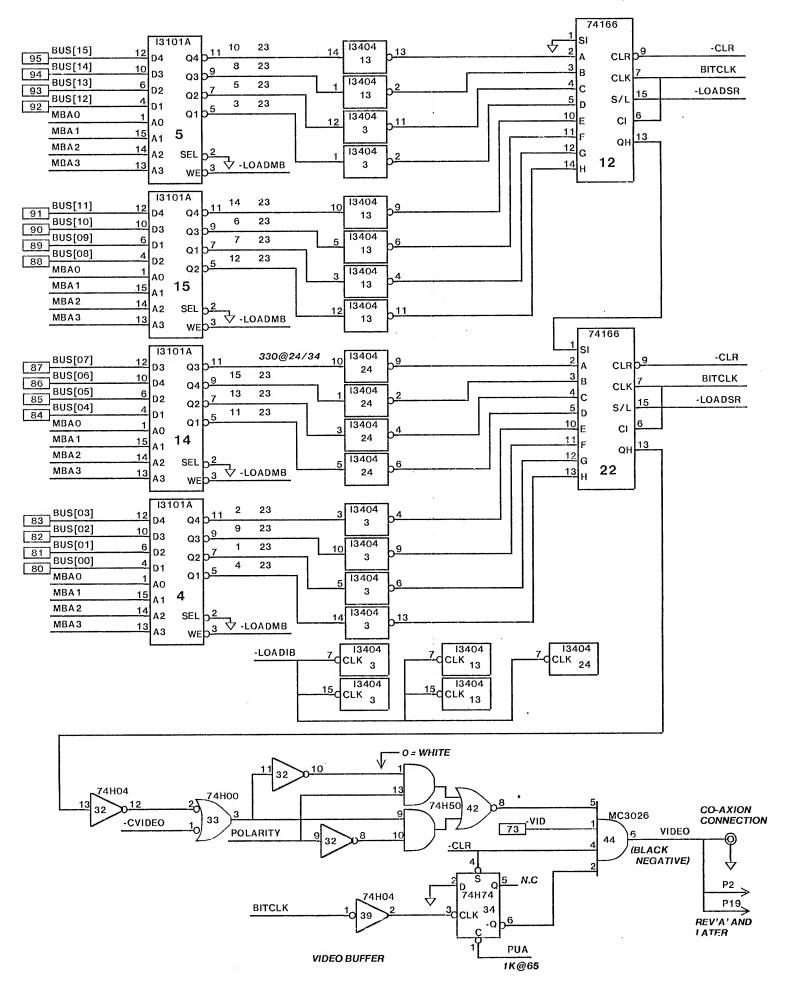


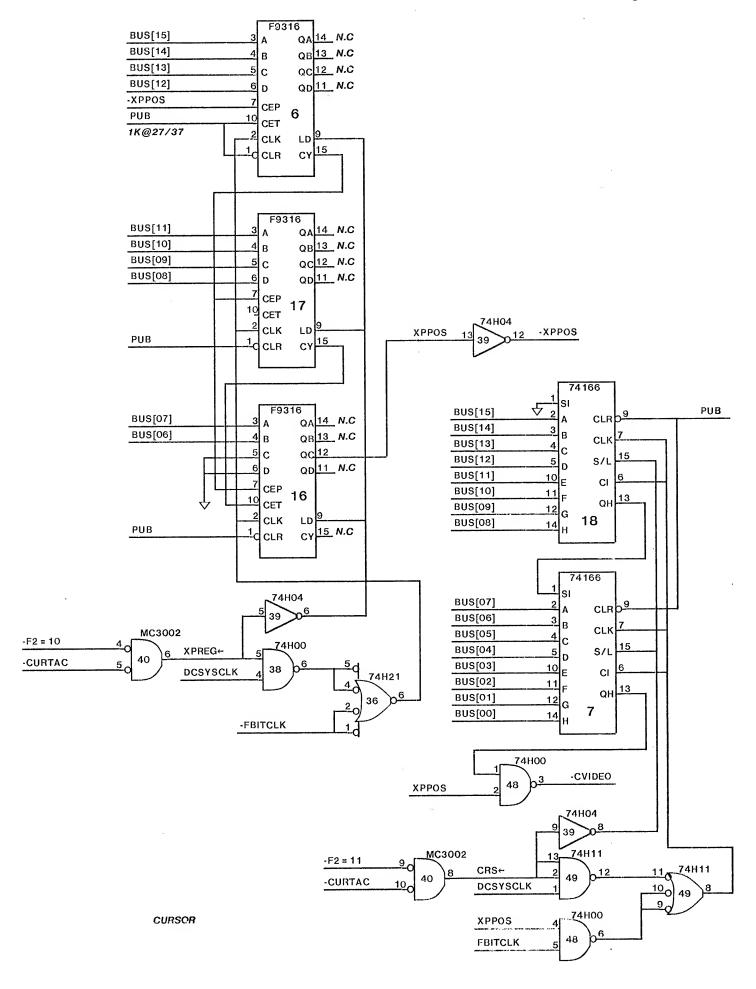


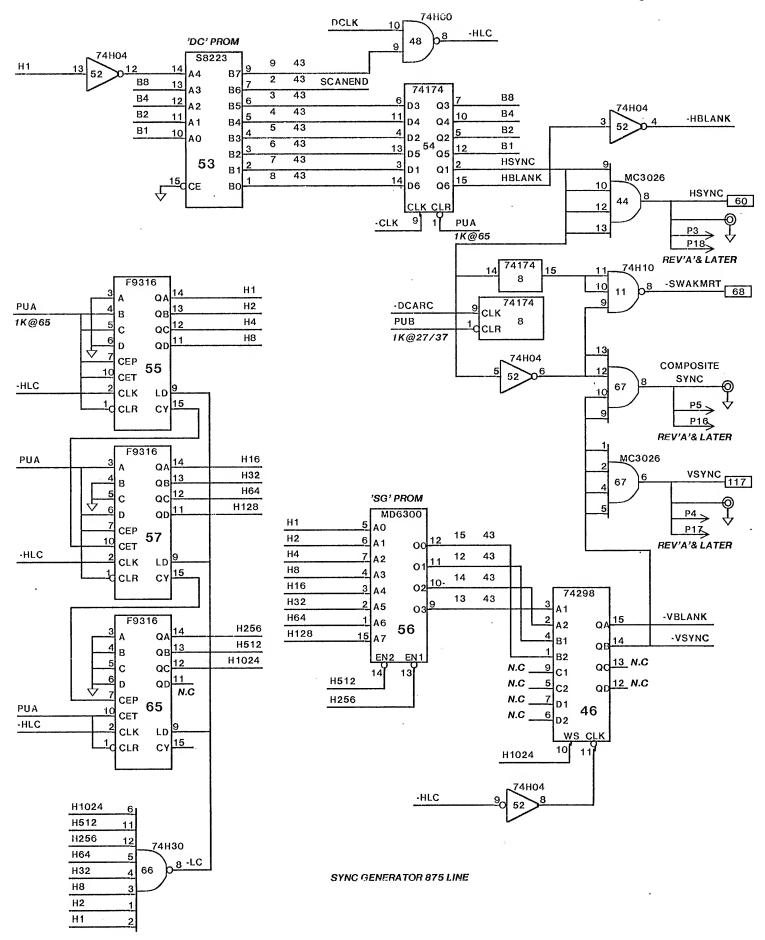
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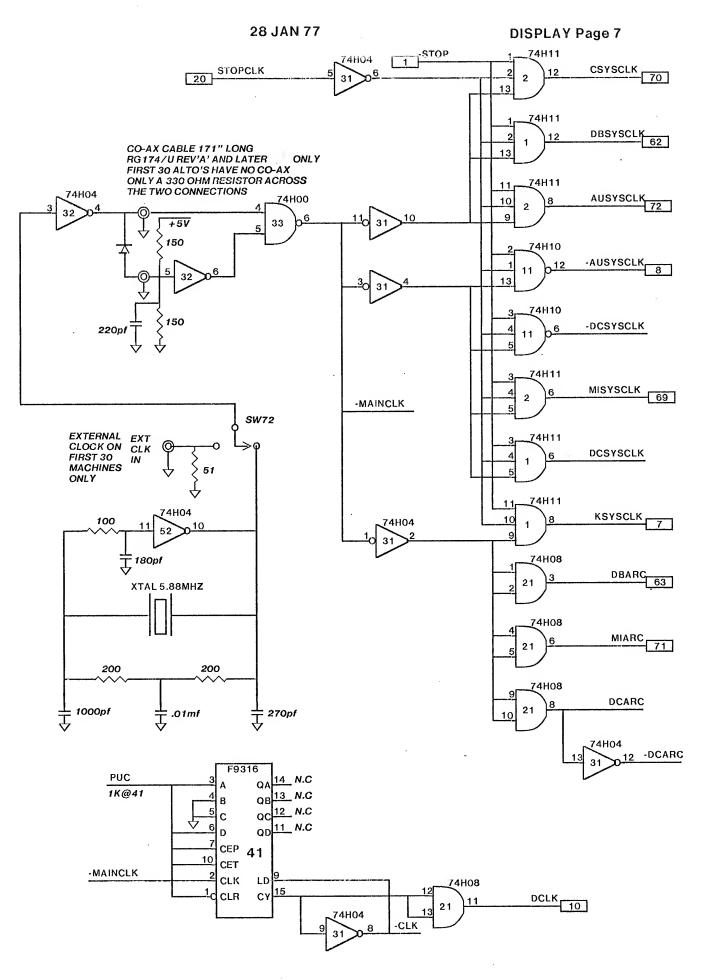


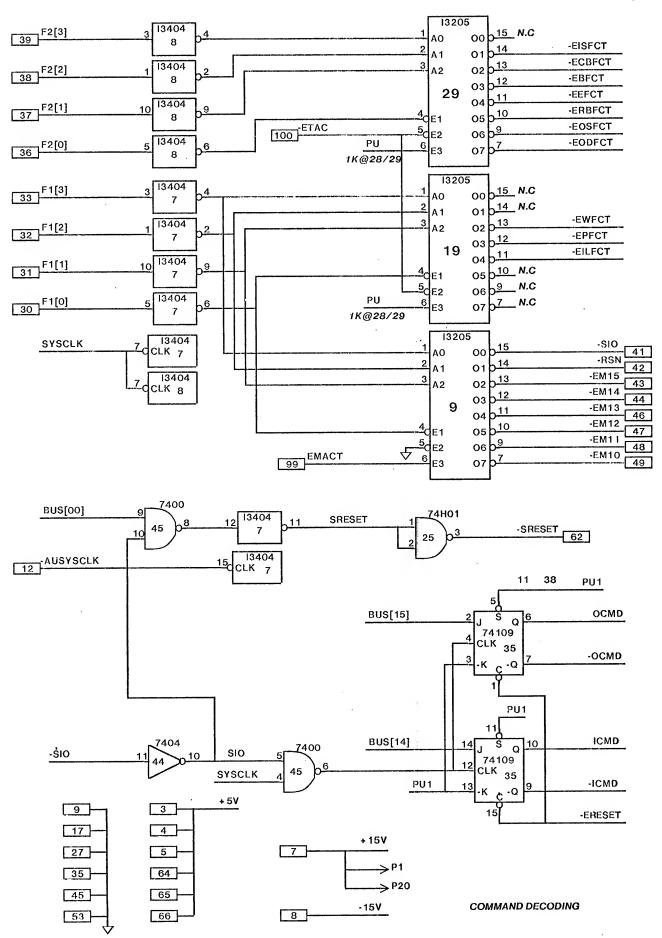
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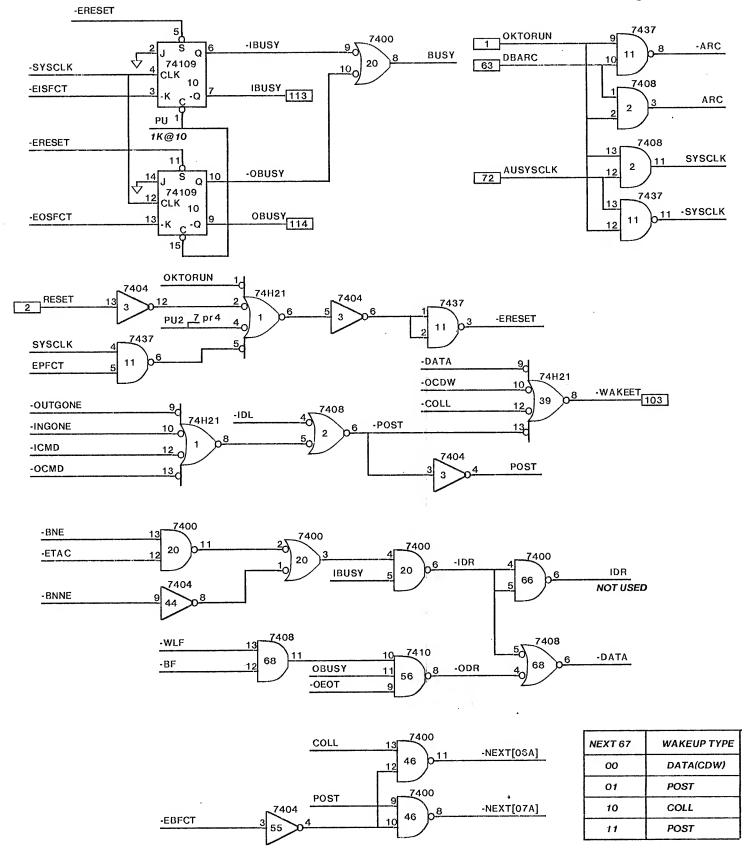




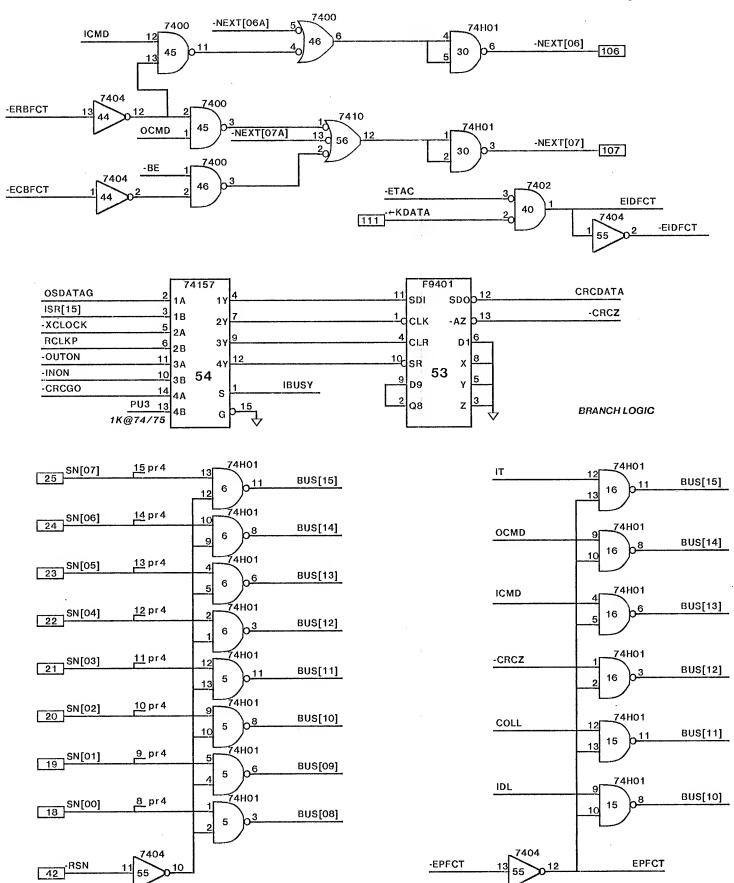


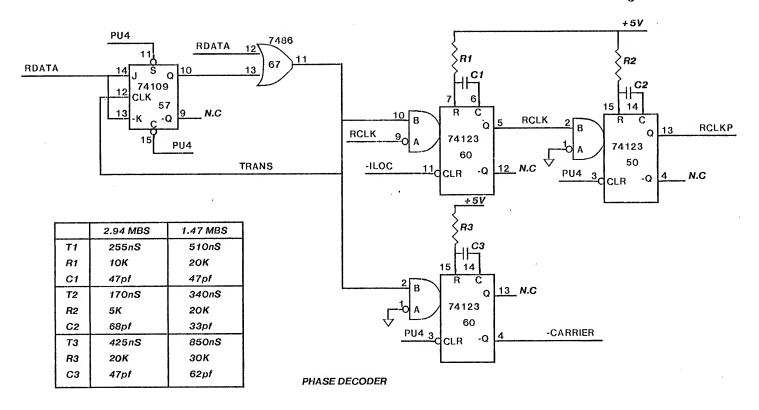


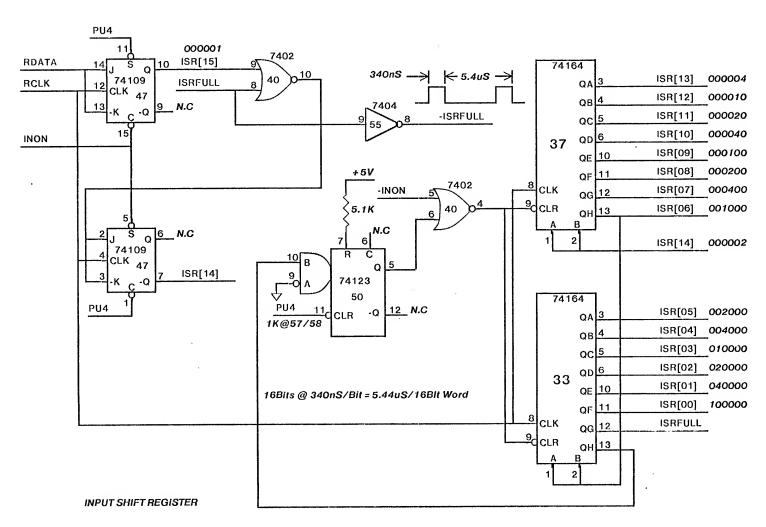


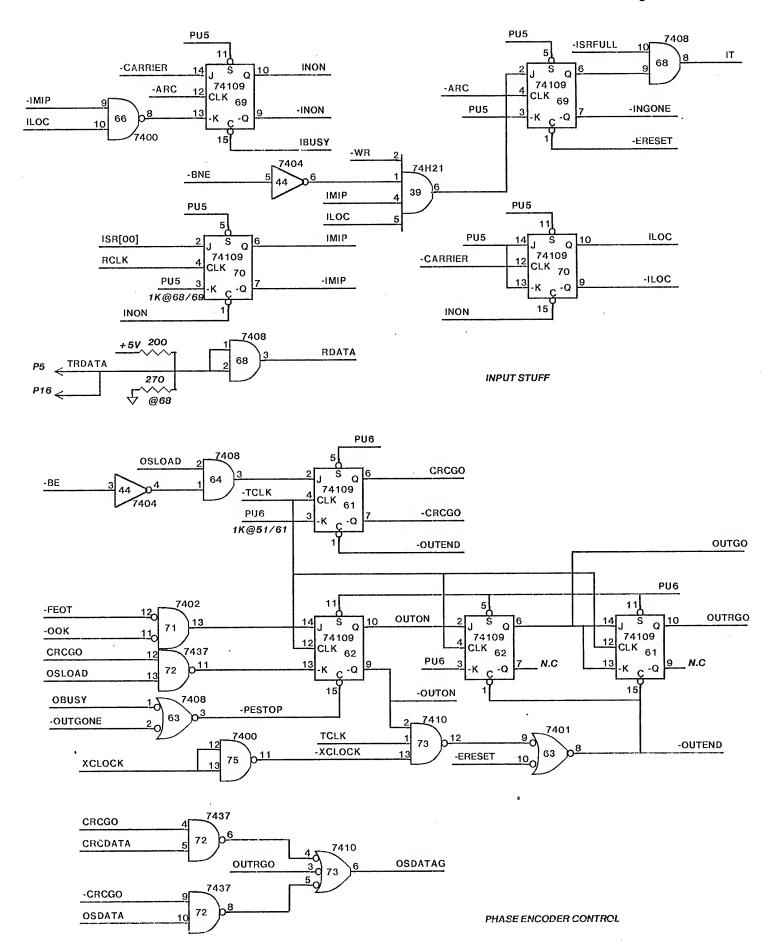


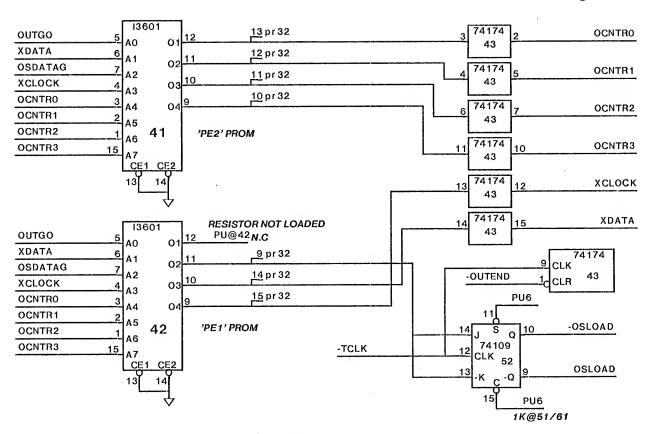
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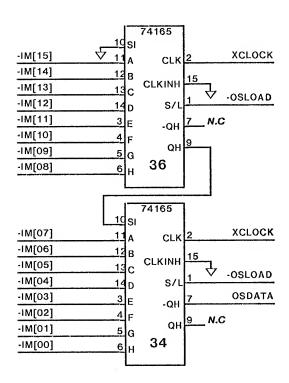


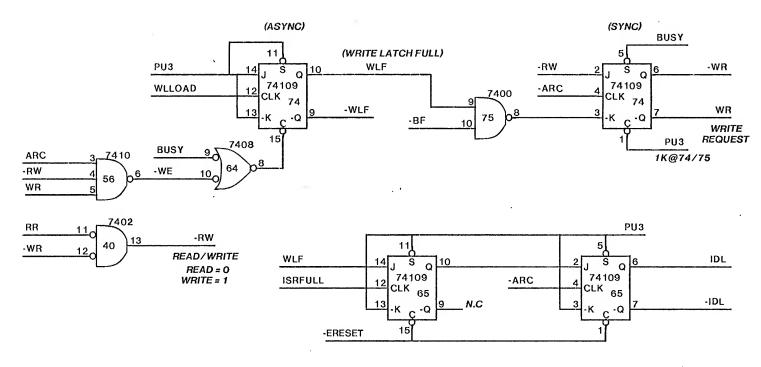


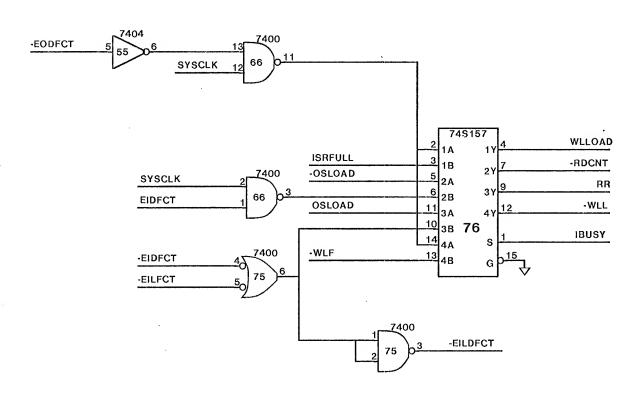




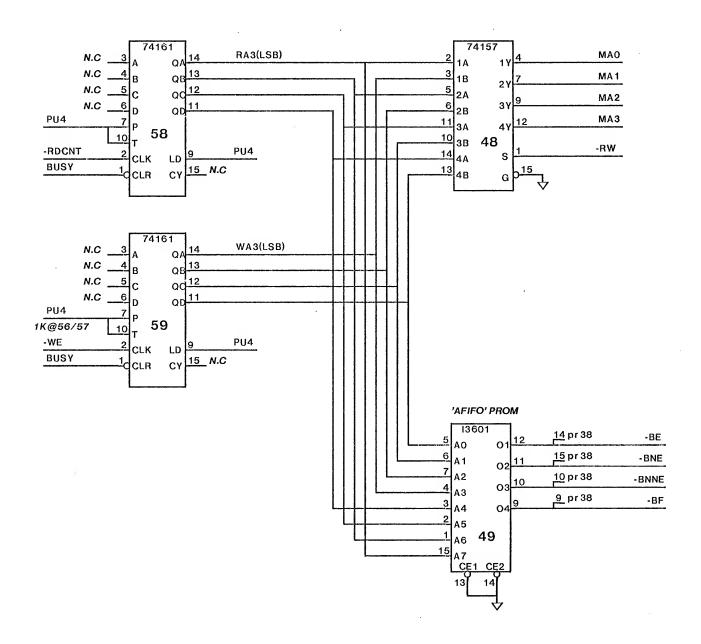




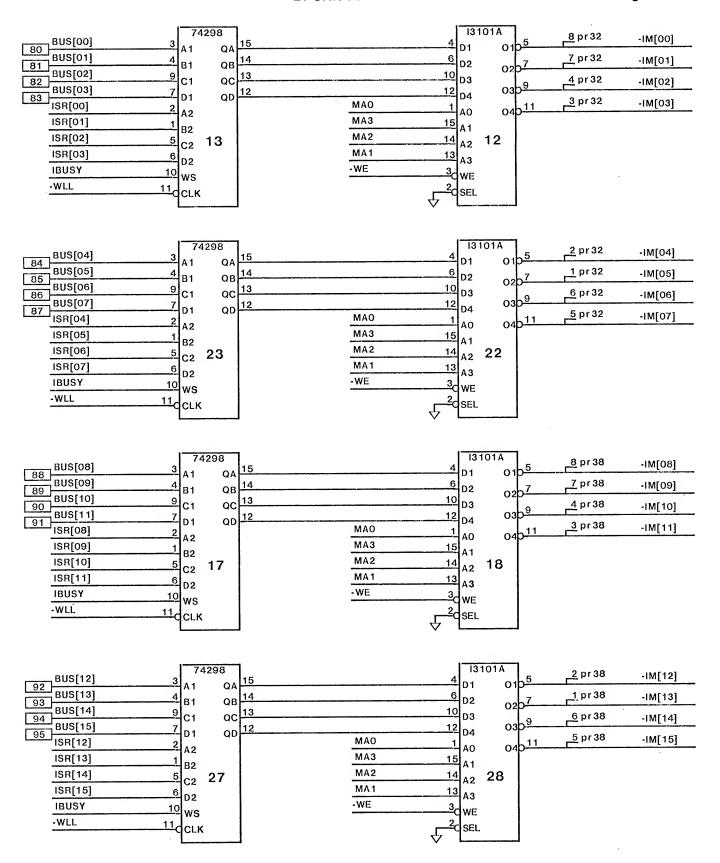


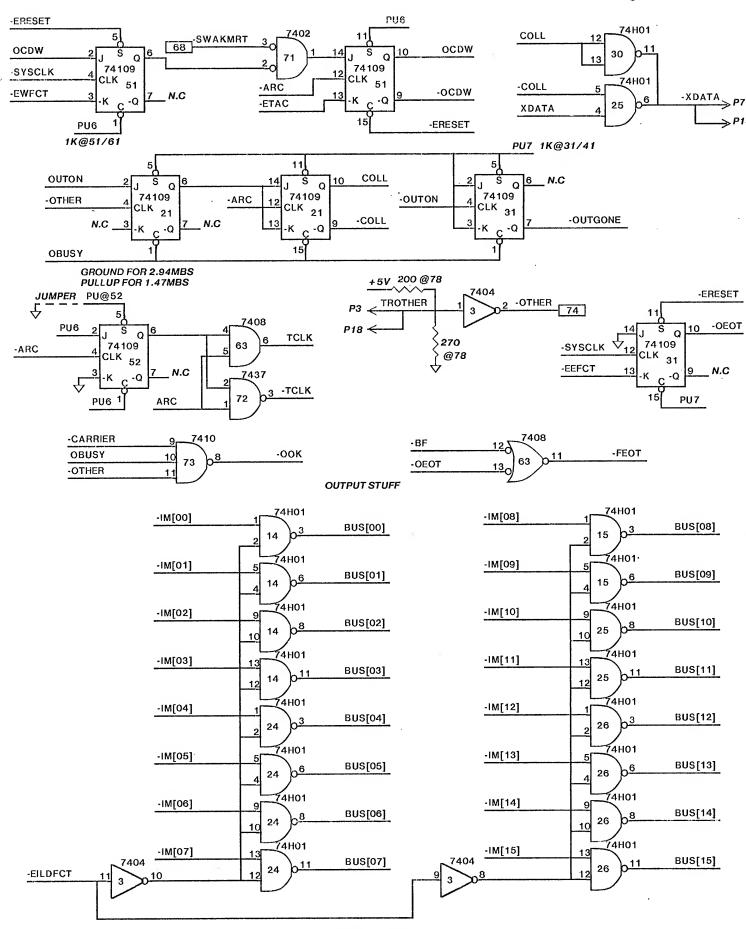


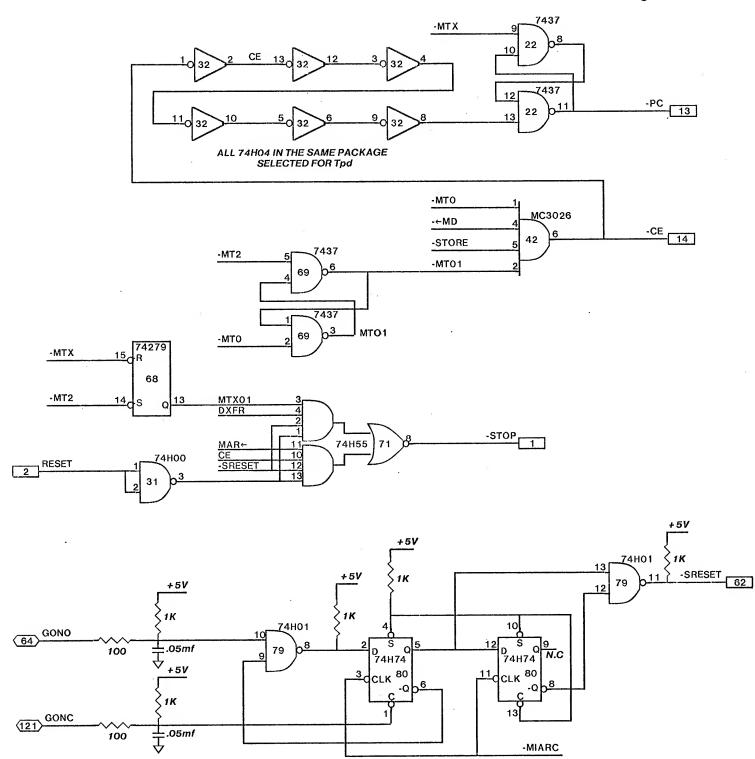
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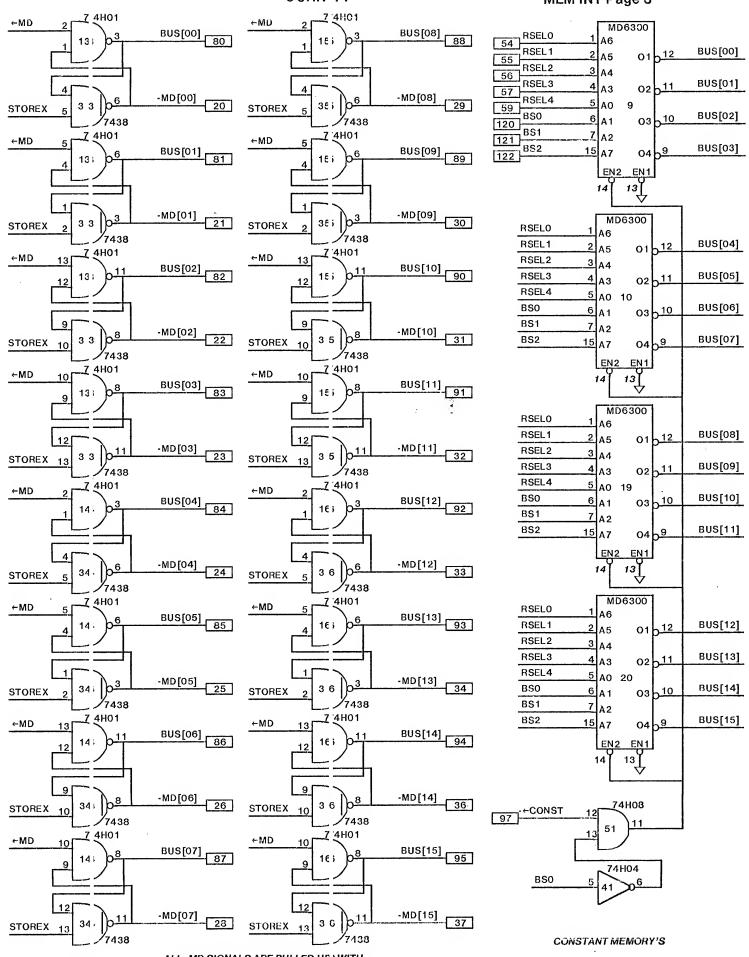
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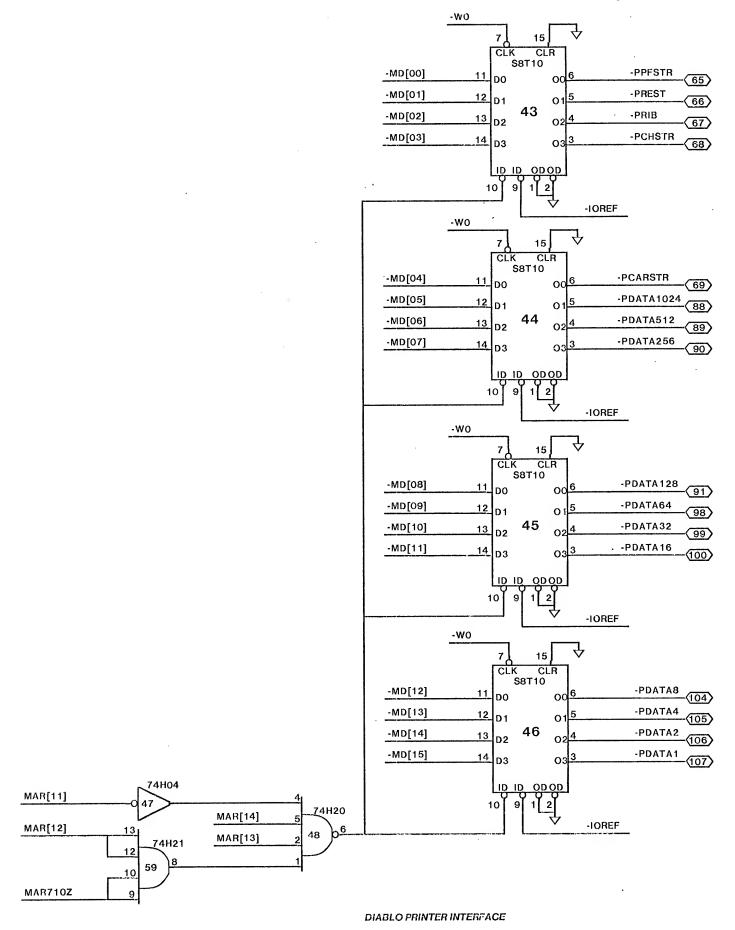


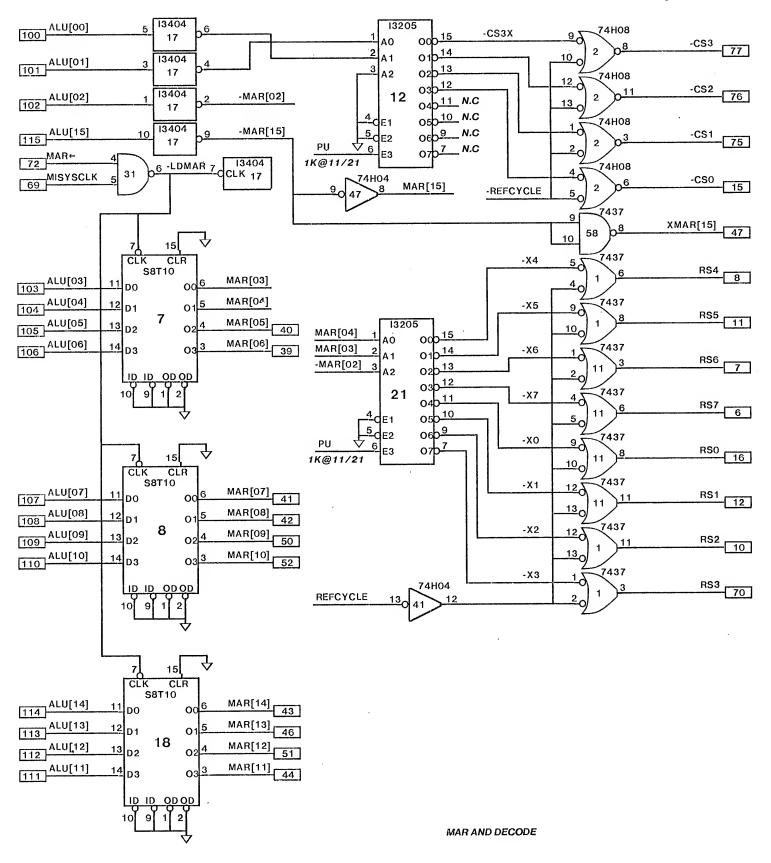


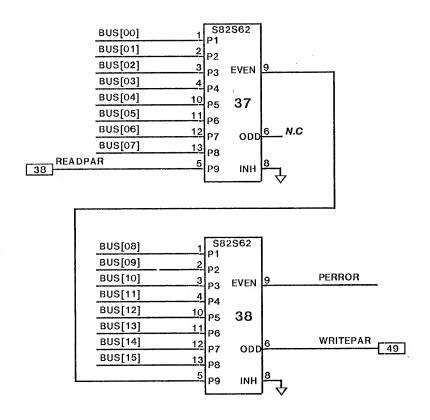
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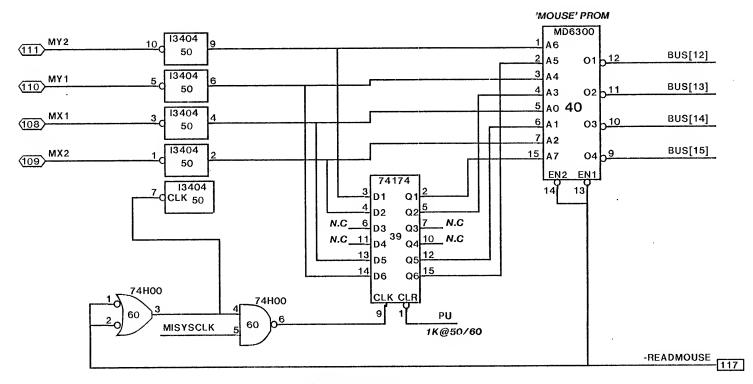


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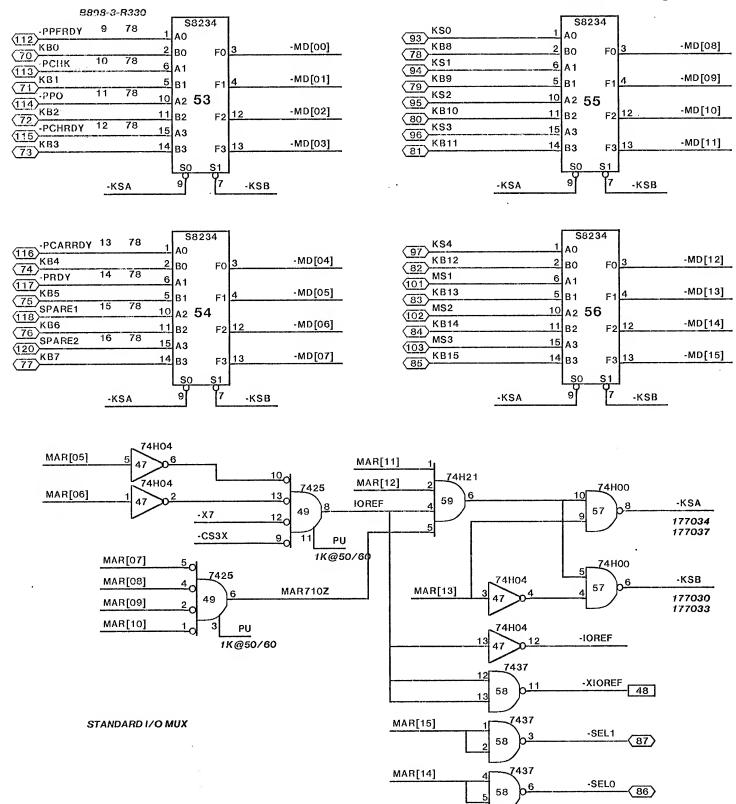






MOUSE AND PARITY

## **MEMORY INT Page 7**



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-5volts

+ 5volts

+ 16volts

+ 19.5volts

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6 7

120

+ 16volts

+ 19.5volts

60

6 7

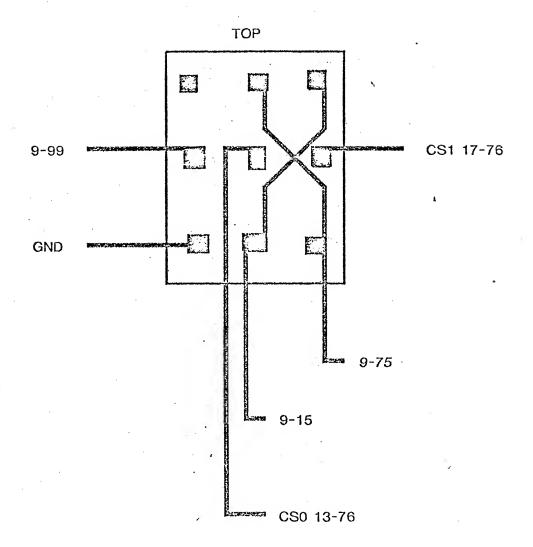
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		<ul> <li>M.D(11)</li> <li>D.M.Q.Z(∅9)</li> </ul>			· WaiterAR				LALUCΦ O SH(ΦΦ) •		ł	LALUCΦ Φ 5H(ΦΦ) Φ					BLOCK	*RDGATE		OCK I
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ALTO HEHORY ARRANGEMENT PRINTED CIRCUIT VERSION

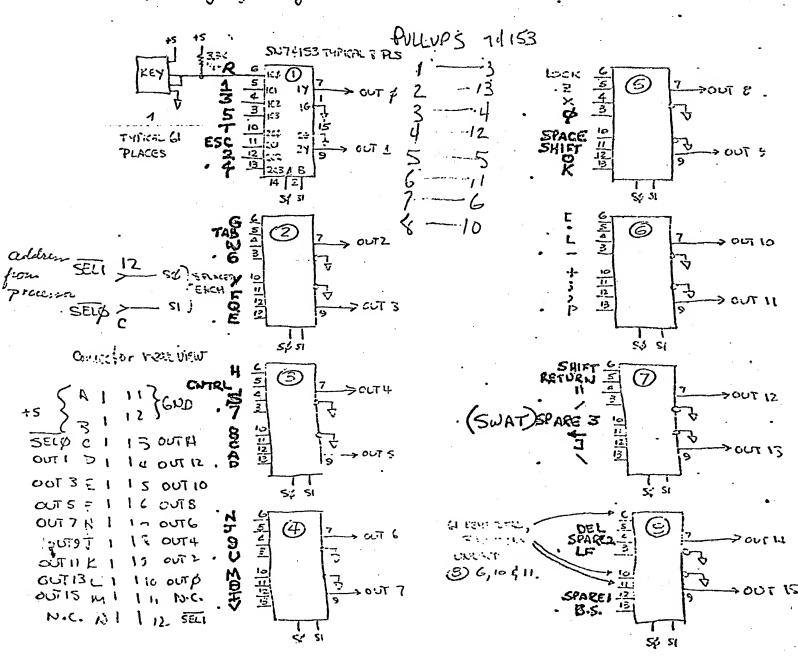
ADDRESS HUNINIH	ADDRESS HAXIHUM	CARD ROY	CARD SLOT
000000 004000 010000 014000 020000 024000 030000 034000	003777 007777 013777 017777 023777 023777 027777 033777	0 1 2 3 4 5 6	EVEN ADDRESSES 13 - BITS 0-11 14 - BITS 12-15 & PARITY  ODD ADDRESSES 15 - BITS 0-11 16 - BITS 12-15 & PARITY
040000 044000 050000 054000 060000 064000 070000	043777 047777 053777 053777 063777 067777 073777	0 1 2 3 4- 5 6- 7	EVEN ADDRESSES  17 - BITS 0-11  18 - BITS 12-15 & PARITY  ODD ADDRESSES  19 - BITS 0-11  20- BITS 12-15 & PARITY
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14000 144000 150000 154000 160000 164000 170000	147777 153777 157777 163777 167777 173777	0 1. 2. 3. 4. 5. 6	EVEN ADDRESSES 25 - BITS 0-11 26 - BITS 12-15 & PARITY  ODD ADDRESSES 27 - BITS 0-11 28 - BITS 12-15 & PARITY
WORD BIT 0 1 2 3 4 5 6 7 8 9 10 11	CARD COLUMN 0 1 2 3 4 5 5 7 8 9 10 - 11 - 11 - 11 - 11 - 11 - 11 - 11	EVEN WOR SLO7S BIT 12 13 14 15 PAR	



## KEHTWED:

The keyhand has CI keys. It will receive a 2 bit adden from the processor which will seized one of four groups of key which to be gained to the 16 cetput lines. Cutput lines are low when key is depressed. The keyboard require and lines (plus power) interface to the processor; Ibdata lines and two advisors lines.

The frum fromps include 16,16,16,13 keys respectively. The relation between keys and bits in the output word is not important, and will be determined primarily by PC layers considerations.



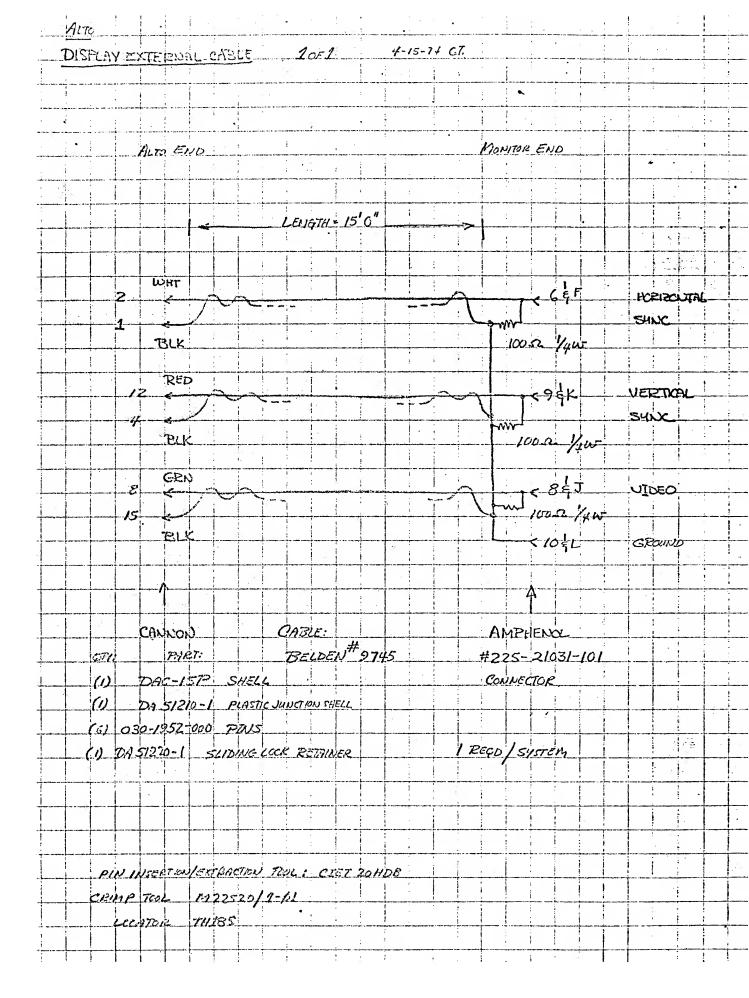
Pa(139)(-			•		
SIGNAL	FROM .	VIA	ТО		
	ConnecTOR/PIU	CABLE /COLCR	CONNEC.	TR/PIN	
GONO	A/ 1	井江 .	Виттою	NORMAL	LY OPEN CONTACT BLUE /BLACK
KBO.	2		D/	10	VIOLET
KBI	3	1	DI	D	YELLOW /BLACK .
KBS	4	,	DI	9	BLUE
KB3	5		D/	Ε	YELLOW/BLOWN
KB4	6		D/	_ 8	GLEEN
KB5	7		D	F	YELLOW / RED
KB.	8		D	7	YELLOW
<u> </u>	9		Dl	Н	YELLOW OLANGE
<b>∠</b> B8	- 10		D/	6	OLANGE
KB9	. jt		0/	J	YELLOW (GREEN.
KB10	12		D	5	RED
KBII	13	·	D/	K	YELLOW / BLUE
KBIZ	14		D	4	BLOWN
KBI3	15		Ŋ	L.	YELLOW/VIOLET
	16		D/	. 3	BLACK
KBIS	17		D/	М	YELLOW/GREY
SEL¢!	18		D	С	WHITE
SEL1'	19		D	12	GREY
<u>ICS</u> \$\phi\$	20		cl	. (1	OLANGE / BLACK
<u> </u>	21		ci	10	OLANGE / BLOWN
الادة.	2.2		cj	9	OLANGE / RED
K23	23		cl	е	OLANGE / BLUE
Ks4	24		cl	7	OLANGE / VIOLET
MSI	25 :		B	14	WHITE BLACK
MSZ	26		Bl	16	WHITE ( BROWN
. H83	27		B/	15	WHITE ( RED
мхі	2.8		B/	2	WHITE POLANGE.
Mxs	29		В	١	WHAE (YELLOW
<u> MYI</u>	30		B/	3.	WHITE (GREEN
MYZ	31 :	V	B	4	WHITE /BLUE
3				į.	

CABLE: KEYBOA	RD CABLE (E	KTERNAL)		PG 3 CF3
SIGNAL	FROM	VIA.	то .	
010 10/12	COLLECTOR/PIN	CABLE COLOR	CONNECTOR/PIN	÷
GONC	A/ . 32	#26	Виттой исель	THEY CLOSED CONTACT BLUE/BLOW
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		*	10	
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Mouse +5	D/ A	#24	B/ 6-	WHITE
Mouse ground	D/ 1	#24	B/ 19.	THESE ARE ISOLATED WIRES, NOT BE
KEYSET GROUND	D/ 1	#24	c) 19	PART OF THE CABLE BLACK
LEUBOARD +5	A/35	#18	D/ A-	WHITE
KEU BORRD + GND	A/31	#18	011'	BLACK
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SIGNAL	FROM	VIA	ТО			2/14/74
	COLLECTOR/PIN	CABLE /COLCR	CONNECTOR/PIN	Addition with a second	•	
GONO	A/ 64	±24	B/ I		•	
P.PFSTR'	65.	1	C11.			
PREST	66		c/ 2			7.
PRIB	67		c[ 3		-	
PCHSTR!	68		C/4		•	•
PCARSTR'	69		c/5,	*		
KBØ	70		B1 7 2		e	
KBI	71		B/ 3			
KBz	72		B/ 4.			
KB3	73					*
KBA	74		B/ 5,			×
K82	75	.5			· · · · · · · · · · · · · · · · · · ·	
KBC	76		B/ 7 B/ 8	• ,	* 17	
KBI	77	8				
	78		B/ 9,			*
KB8	79		B/ 10:		-	
KB9 KBIO			B 11	**		
	80		B/ 12.		. ·	. *
KBII	25 81		B/ 13,		Produce and the second	the state of the s
KBIZ	83		B/ 14			*
KBI3			B/ 15			
KB14 KB15	84	-	B/ 16			
and the state of t	85		B/ 17	H (800-100-100-100-100-100-100-100-100-100-		
seld!	86		B/ 18:			*
9561	87		B/ 19	*		
PDATAIO24	88		46			-
PDMAS12	89		c  7	where the state of		• •
PDATA 25L'	90		<u>c/8</u>			-
PDATAI28	91		<u>c/9</u>			andre dest op treatment des also en proposition above to include a
KSØ	93	1 1	B/ 20	The thirt both Medical Management was		Maritan Agric andres glassic as a sang
K2I	94		B/ 21			
· KSZ	95	1	B/ 22.		-	The first of the second section and the second section is a second section of the second section of the second section is a second section of the section of the section of the second section of the se

Sistal	KE4BOA	ed / Printer	. INTERNAL	CABLE .	3 4 2/14/7:
KS3	SIGNAL	FROM	VIA.	То .	
PORTACH   98		COLLECTOR/PIN	CABLE /COLCIE	CCUNECTER/PIN	
PDATA(4! 98   C  10   PDATA(4! 99   C  11   PDATA(4! 100   C  12   MS1   101   B  / 25   MS2   102   B  24   MS3   103   B  27   PDATA(4! 105   C  13   PDATA(4! 105   C  14   PDATA(4! 105   C  15   PDATA(4! 107   C  16   MY1   108   R  28   MY2   109   B  29   MY1   110   B  30   MY2   111   B  31   PPPEDY   112   C  17   PCHK   113   C  20   PPO'   114   C  21   PCHRUY   115   C  22   PROU'   117   C  24   SPARE   SEG 122   B  34   GONC   121   B  32   PPEDUTE   LOCIC GEROAD   56   C  25	K23	A/ 96	#29	8/ 23	
PDATA 32	K\$4	97		B/ 24	
PDATALL   100   C/ 12   MSI	PDATACH!	98		C/ 10	
MSI	SE ATAGG	99		d 11	
MS2	PDATALL'	100		4 12.	
MSS	<u> MSI</u>	101	į ; "	B/ 1 25	
PORTAB! 104	SZM	102		B/ 26	
PDATAL 105   C  H PDATAL 106   C  15  PDATAL 107   C  16  MXI   168   R  28  MX2   169   B  29  MYI   110   B  30  MYZ   111   B  31  PPERDY 112   C  17  PSHK 113   C  20  PFO 114   C  21  PCHRDY 115   C  22  PCARRDY 117   C  24  SPARE 1 118   C  24  SPARE 1 118   C  24  SPARE 1 118   C  24  SPARE 1 118   C  24  SPARE 1 118   C  24  SPARE 1 118   C  25  PROVE   121   B  33  SPARE 2   TEB 120   B  33  SPARE 2   TEB 120   B  34  GONC   121   B  32	E2M	103		B/ 27	
PDATA2' 106	-	104		c/ 13 ·	
PDATA! 107	*PDATA	105		cl. #4	
MX2   IGS   R  28	PDATA2'	106		c  15	
MXZ   109   B   29  MY1   110   B   30  MY2   111   B   31  PPFEDY'   112   C( 17  PCHE'   113   C   20  PPO'   114   C   21  PCHRDY'   115   C   25  PROY'   117   C   24  SPARE'   FF8 120   B   33  SPARE   FF8 120   B   33  SPARE   FF8 120   B   34  GONC   121   B   32  PRINTER LOGIC GROUD   56   C   25	POATAI	107		0/16	
MYI 110 B 30  MYZ 111 B 31  PPFRDY' 112 C( 17  PCHK' 113 C( 20  PPO' 114 C( 21  PCHRDY' 115 C/ 22  TCARRDY' 116 C/ 23  PRDY' 117 C/ 24  SPARE'I 38 120 B/ 33  SPARE'I 38 120 B/ 34  GONC 121 B/ 32  PRINTER LOCIC GROWD 56 C/ 25  """ 57 C/ 26  """ 57 C/ 26  """ 57 C/ 26  """ 59 C/ 27  C/ 28	MXI	108		R/ 28	
MYZ	MX2	169	e-j-	B/ 29	
PPFEDY' 113	MYI	110		B 30	
PCHE' 113	MY2	111	. "	B/ 31	
PFO'   114   c/ 21  PCHRDY'   115   c/ 22  TCARRDY'   116   c/ 23  PRDY'   117   c/ 24  SPARE'I   128   120   B/ 33  SPARE'I   126   122   B/ 34  GONC   121   B/ 32  PRINTER LOGIC GROAD   56   c/ 25     " " 57   c/ 24     " " 59   c/ 27     " " 60   c/ 28	PPFROY'	115		c/ 17	3 (2)
PCHRDY IIS	PCHK,	113		c/ zo	-
PROPUL III C/ 23  PROUL III C/ 24  SPAREI ES 120 B/ 33  SPARE2 ES 122 B/ 34  GONC 121 B/ 32  PRINTER LOGIC GROWD 56 C/ 25  "" "" 57 C/ 24  "" " 59 C/ 27  "" " 60 C/ 28	"PPO"	114		c/ 21	
PRDY 117	PCHRDY'	115		c/ 22	
SPARE   TEB   120   B   33     SPARE 2   TEB   122   B   34     GONC   121   B   32     PRINTER LOGIC GROWD   56   c   25     " " " 57   c   26     " " 59   c   27     " " 60   c   28		116		c/ 23	
SPARE	PRby'	117	_	c/ 24	
### ### ### ### ### ### ##############	SPAREI	OS1 84		B/ 33	
PRINTER LOGIC GROWD 56	SPAREZ	120 122		B/ 34	
PRINTER LOGIC GRAND 56  (c) 25  (l) " " " 57  (c) 26  (l) 27  (l) 28	GONC	121		B/ 32	
PRINTER LOGIC GROWD 56	· · · · · · · · · · · · · · · · · · ·				
" " " 57 C/ 26 " " " 59 C/ 27 " " 60 C/ 28					
	PRINTER LOGIC GROWD	56		c/ 25	
" " 59 C/ 27 " " 60 C/ 28	и и и	57			
" " 60 C/ 28	n n n	59	1 1		
" " 61 V C/29		60 .		c/ 28	
	ps 14 15	61	V	c/ 29	

ENBOARD	STRINIES IN	TEZNAL CABLE		4	- CF - 4	2/14/74
SIGNAL	FROM	VIA	ТО			
	CONNECTOR/PIN	CABLE /COLOR.	CONNECTOR/PIN			
PRINTES POWER GROWN	D/ 2	#18	c/ 18			
PRINTER +15 ·	0/4	#18	c/ 19			
PRINTER -15	0/1	#18	c/ 36			<b>4</b>
PRINTER +5	0/3	#18	c/_37			* 1
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KEYBOARD +5	A/1	# 24	B/35			8 W
KEY BOARD GND	A/55	=-	B/37		·	*
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CABLE: DISK DATA	CARLE - MODEL 31.	PG 2 CF 3	2-12-74			
SIGNAL	FROM	VIA	ТО		<i>F</i>	ALTO
	CONNECTOR/PIN	CABLE /COLCIE	CONNECTOR/PIN			
TERMINATOR +5	A/ 1		B/PP			
GROWD .	59		D		· · · · · · · · · · · · · · · · · · ·	• • •
GROUND	60		DD	THESE Flus ARE COMMON	ON THE PA	ADOLE ISO
GROUND	61	*	ww			
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DISK	69		L			
CYL (7)1	73	*	N	į.		
SKINC'	74		тт			•
RDCLK'	٦6		Α			
READY!	78		U		· · · · · · · · · · · · · · · · · · ·	+
RETIOR"	79		VV			
KSECT(3)	80		cc		<del></del>	
CYL(3)	81		F-F	-	*	
WRTGATE!	82		EE		-	
LASWSD .	83		F		- 4	
K2ECT(1)	84	*	KK		m.	-
KSECT (2)	85		22			
C4L(8)'	86		LL			
RDDATA'	87		c.	-	:	<del></del>
CYL (4)'	88		X			
CYL(1)'	89		BB	, ,		
CYL(5)	90		2		i i i i i i i i i i i i i i i i i i i	• • •
WRTDATA'	.91		B	* 1		-
CYL(6)'	93	The specimen service flow distinguished with repairing and	RR			
HEAD'	94		AA			
STROBE /	96				-:'.	
SECT (4)'	100		SS W			
ROGATE'	103					9
LAI'	104		E			•
ADIRACK!	105		XX ·			
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Signal	FROM	VIA	ТО			. *
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CYL(2)	109		T	14	*	·
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SIGNAL NAME	ALTO BUS INFORMATION	Alto 1 37 PIN CANNON	Alto 2 25 PIN CANNON	WIRE COLOR
-PPFSTR	BUSOUT(00)	1	13	
-PREST	BUSOUT(01)	2	25	
-PRIB '	BUSOUT(02)	-3	12	
-PCHSTR	BUSOUT(03)	4 .	24	
-PCARSTR	BUSOUT(04)	5	11	
-PDATA1024	BUSOUT(05)	6	23	
-PDATA512	BUSOUT(06)	7	10	
-PDATA256	BUSOUT(07)	8	22	
-PDATA128	BUSOUT(08)	. 9	9	
-PDATA64	BUSOUT(09)	10	. 21	
-PDATA32	BUSOUT(10)	11	8	
-PDATA16	BUSOUT(11)	12	20	×
-PDATA8	BUSOUT(12)	13	7	
·PDATA4	BUSOUT(13)	14	19	
-PDATA2	BUSOUT(14)	15	6	,
-PDATA1	BUSOUT(15)	16	18	
-PPFRDY	BUSIN(00)	17	. 5	
•PCHK	BUSIN(01)	20	17	
PPO	BUSIN(02)	21	4	
-PCHRDY	BUSIN(03)	22	16	
-PCARRDY	BUSIN(04)	23	15	
-PRDY	BUSIN(05)	24	3	
PRINTERGND	LOGICGND	25	14	
PRINTERGND	LOGICGND	26	. 1	
PRINTERGND	LOGICGND	27		-
PRINTERGND	LOGICGND	28		
PRINTERGND	LOGICGND	29		
POWERGND	LOGICGND	18		
PRINTER + 15V	+ 15V	19	-	
PRINTER-15V	-15V	36		
PRINTER+5V	VCC	37		

